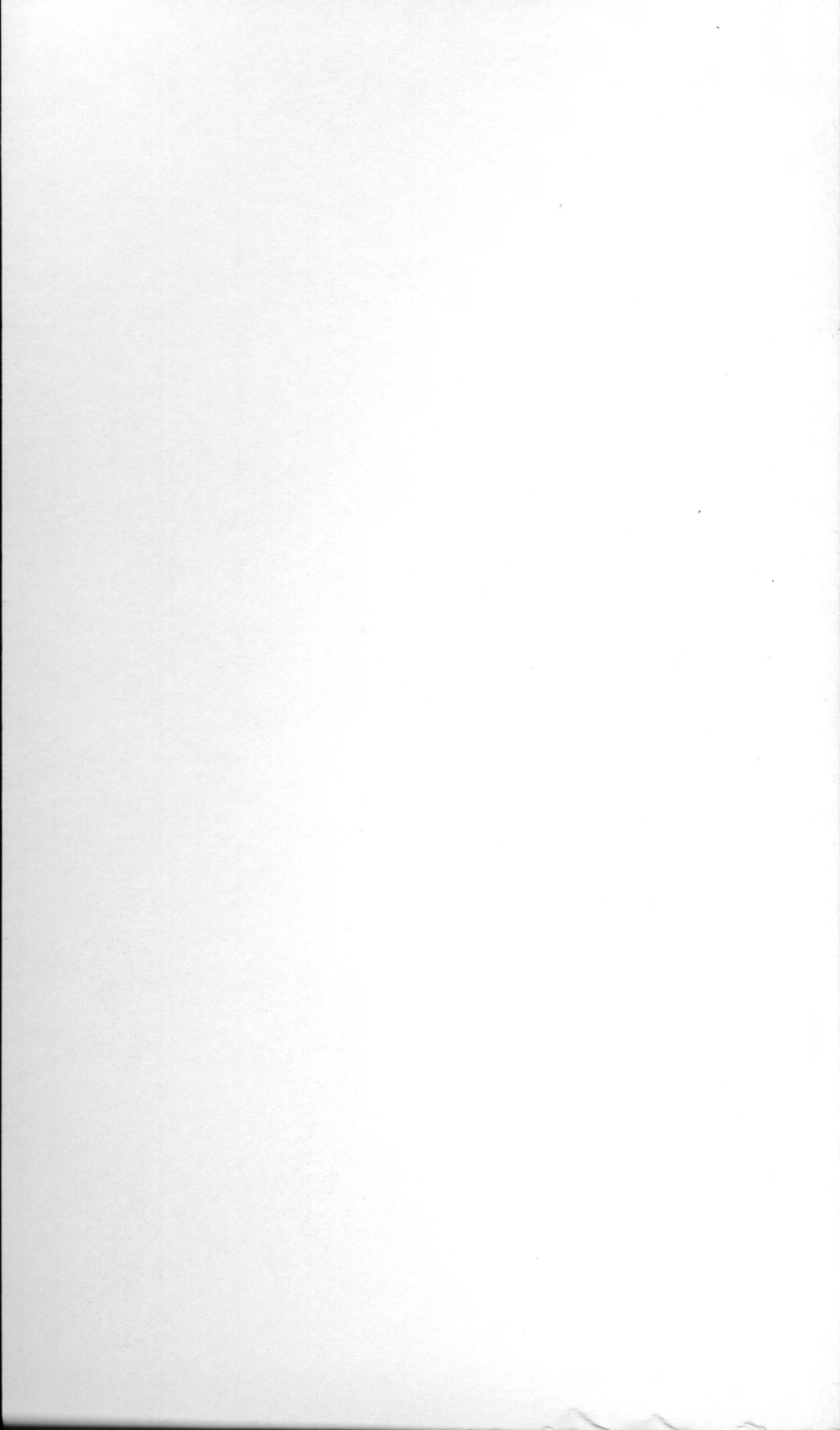


1993-94  
Catalog



# 1993-1994 CATALOG

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## Collegedale Campus

### **Mailing Address:**

P.O. Box 370  
Collegedale, TN 37315-0370

### **Telephone:**

General Number: (615) 238-2111

### **Admissions information:**

Nationwide, 1-800-SOUTHERN  
(1-800-768-8437)

**FAX:** (615) 238-3001

## Orlando Campus

### **Mailing Address:**

Nursing Department  
653 Lake Estelle Drive  
Orlando, FL 32803

**Telephone:** (407) 897-1890

**FAX:** (407) 897-5572

In publishing this catalog, every reasonable effort has been made to be factually accurate. The publisher assumes no responsibility for editorial, clerical, or printing errors. The information presented is, at the time of printing, an accurate description of course offerings, policies, and requirements of Southern College. The provisions of this catalog, however, are not to be regarded as an irrevocable contract between the college and the student. The college reserves the right to change any provision or requirement at any time, without prior notice.

# ACADEMIC CALENDAR

1993-94 School Year

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The Southern College summer term consists of four 4-week sessions. Students in attendance during the 1992-93 school year may register at any time during the week immediately preceding the session.

## 1st Summer Session

May 4	Registration
May 4	Classes Begin
May 5	Late Registration Fee
May 6	Last Day to Add a Course/Fee for Class Change
May 14	Last Day to Drop and Automatically Receive a "W"
May 21	All Withdrawals After This Date Receive "F"
May 28	Classes End

## 2nd Summer Session

June 1	Registration
June 1	Classes Begin
June 2	Late Registration Fee
June 3	Last Day to Add a Course/Fee for Class Change
June 11	Last Day to Drop and Automatically Receive a "W"
June 18	All Withdrawals After This Date Receive "F"
June 25	Classes End

## 3rd Summer Session

June 28	Registration
June 28	Classes Begin
June 29	Late Registration Fee
June 30	Last Day to Add a Course/Fee for Class Change
July 5	Independence Day Observed
July 9	Last Day to Drop and Automatically Receive a "W"
July 16	All Withdrawals After This Date Receive "F"
July 23	Classes End

## 4th Summer Session

July 25	Registration
July 26	Classes Begin
July 27	Late Registration Fee
July 28	Last Day to Add a Course/Fee for Class Change
August 6	Last Day to Drop and Automatically Receive a "W"
August 13	All Withdrawals After This Date Receive "F"
August 19	Classes End

**1st Semester**

Aug 12-15	Faculty Colloquium
Aug 20, 22	ACT and CLEP Exams
Aug 23	Freshman Orientation
Aug 23, 24	Registration by Appointment
Aug 25	Classes Begin
Aug 25	Late Registration Fee
Sep 1	Fee for Class Change
Sep 7	Last Day to Add Course
Oct 14	Mid-term Ends
Oct 15-17	Mid-semester Vacation
Oct 28-31	Alumni Homecoming
Oct 28	Last Day to Drop and Automatically Receive a "W"
Nov 1-12	Pre-Registration/Advisement
Nov 24-28	Thanksgiving Vacation
Dec 3	All Withdrawals After This Date Receive "F"
Dec 13-16	Semester Exams
Dec 17-Jan 2	Christmas Vacation

**2nd Semester**

January 2, 3	Registration for Pre-registered Students
January 3	Registration by Appointment
January 4	Classes Begin
January 4	Late Registration Fee
January 11	Fee for Class Change
January 17	Last Day to Add Course
January 25	Senior Class Organization
February 24	Mid-term Ends
Feb 25-Mar 6	Spring Break
March 11	Last Day to Drop and Automatically Receive a "W"
Mar 21-Apr 1	Pre-Registration/Advisement
April 4	Senior Deadline for Correspondence/Incompletes
April 8	All Withdrawals After This Date Receive "F"
April 3, 4	College Days
April 25-28	Semester Exams
May 1	Commencement/Semester Ends

# THIS IS SOUTHERN COLLEGE

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Southern College of Seventh-day Adventists is a four-year co-educational institution established by the Seventh-day Adventist Church\* primarily to serve its constituents in the southeastern part of the United States. Its purpose is to provide biblical, liberal arts, professional, pre-professional, vocational, adult studies, and special programs in a Christian setting.

## EDUCATIONAL PHILOSOPHY AND OBJECTIVES

The purpose of higher education in the Seventh-day Adventist Church is rooted in a comprehensive theological understanding of humanity in the world. The following is a summary of this understanding:

- (1) Seventh-day Adventists believe that God is the Creator and Sustainer of the earth and its inhabitants. He is the Source of all knowledge.
- (2) Created in the image of God for the purpose of communion with Him, man possessed harmonious physical, mental, spiritual, and social attributes.
- (3) As a result of sin, these attributes were seriously marred, but God in His love provided a redemptive plan for the restoration of His image in humanity, thus preparing man for eternal personal fellowship with God.

In the context of this theological understanding, education is viewed as an essential element of redemption, including an awareness of man's relationship to God and a commitment of service to mankind. Education, consequently, must focus on developing the whole person. Southern College attempts to provide a spiritual, intellectual, social, and physical environment designed to encourage this development through the following specific objectives.

### *Spiritual*

The spiritual goal of Southern College is to enable students to grasp Christian beliefs and values as understood by the Seventh-day Adventist Church. Along with three hours' mandatory religion course

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\*This college is operated by the Southern Union Conference of Seventh-day Adventists, which is comprised of the churches in the states of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

work for each year of attendance, students have religious convocations and various opportunities for Christian fellowship and service to help them better internalize these ideals.

### *Intellectual*

The intellectual goal of Southern College is to help students confront the ideas and values which underlie civilization. Course requirements and general education options aim at broadening and deepening the students' outlook. An honors program challenges the most capable students, while academic awards recognize a range of scholarly achievements.

### *Occupational*

The occupational goal of Southern College is to prepare students for service in a practical world. Although that does not always mean specific career orientation, the major and minor course work offers useful competencies as well as skills related to specific vocations.

### *Social*

Regarding the relationship of individuals to society, the goal of Southern College is to encourage students to attain the social maturity necessary for successful family and community living. Southern College provides activities and courses aimed at developing healthy interpersonal relations, communication skills, and decision-making abilities.

### *Physical*

Regarding personal health, the goal of Southern College is to educate students to be active in promoting their own physical well-being. Southern College is smoke-, alcohol-, and drug-free by policy, and the cafeteria offers a meatless diet. Health-oriented courses and activities combine to encourage a balance of exercise, rest, diet, study, work, and recreation.

## **HISTORY**

In 1892 the educational venture that developed into Southern College had its beginning in the Seventh-day Adventist Church in the small village of Graysville, Tennessee. The school became known as Graysville Academy. In 1896 the name was changed to Southern Industrial School and five years later to Southern Training School.

In 1916, because of limited acreage available for further expansion of plant facilities, the school was moved to the Thatcher farm in Hamilton County, Tennessee. The name "Collegedale" was given to the anticipated community. At its new location, the school opened as Southern Junior College and continued as such until 1944 when it achieved senior college status and the name was changed to Southern

Missionary College. In 1982 the name was changed to Southern College of Seventh-day Adventists.

### SETTING

Southern College's one-thousand-acre Collegedale campus is nestled in a valley eighteen miles northeast of Chattanooga. The quietness and beauty of the surroundings are in keeping with the college's educational philosophy.

### ACCREDITATION AND MEMBERSHIPS

Southern College of Seventh-day Adventists is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award one-year certificates, associate degrees, and baccalaureate degrees. It is also accredited by the Seventh-day Adventist Board of Regents.

Departments of the college are also accredited by various organizations. The Associate of Science and Bachelor of Science degree programs in nursing, including Public Health Nursing, are accredited by the National League for Nursing as surveyed by the Collegiate Board of Review. The Department of Nursing is an agency member of the Department of Baccalaureate and Higher Degree Programs of the Division of Nursing Education of the National League for Nursing. It is also accredited by the Tennessee Board of Nursing and is recognized by the Florida State Board of Nursing.

The college is approved by the Tennessee State Board of Education for the preparation of secondary and elementary teachers. Southern College is also a member of the Association of American Colleges, the American Council on Education, the Tennessee College Association, the American Association of Colleges for Teacher Education, and the National Association for Schools of Music.

### ACADEMIC PROGRAM

The academic program consists of 36 baccalaureate degree majors and 27 minors. Students may pursue programs of study leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, and Bachelor of Social Work degrees. Fourteen programs leading to an associate degree are also offered. Various pre-professional and terminal curricula are available to students wishing to qualify for admission to a professional school.

Secondary teaching certification is available in ten disciplines. A one-year certificate is available in Auto Body Repair. SC also cooperates with Loma Linda University in offering the M.Ed. degree and with Andrews University in offering the M.S.N. degree.



## STUDENTS

Sixty-five percent of the students of Southern College come from the eight states comprising the Southern Union Conference of Seventh-day Adventists. However, most of the additional states and 25-30 foreign countries are also represented. There are a few more women than men.

Former Southern College students are now serving in the ministerial, teaching, medical, and other services of the Seventh-day Adventist Church at home and abroad. Others are engaged in advanced study, business pursuits, government service, research activities, private and institutional medical services, and the teaching professions on all levels.

## FACILITIES

The following buildings house the academic activities of the college on the Collegedale campus:

Brock Hall—Art, Business/Office Administration, English/Speech, History, Journalism/Communication, Modern Languages, Instructional Media, and WSMC FM90.5

Daniells Hall—Mathematics, Physics, Computer Science/Technology

Hackman Hall—Biology and Chemistry

Mazie Herin Hall—Nursing

William Iles Physical Education Center—Physical Education

Ledford Hall—Industrial Technology

McKee Library

Miller Hall—Religion Center

Student Center—Computer Center, Student Health Service, Cafeteria, Testing and Counseling Center, Campus Ministry Office, student activity rooms, K.R.'s Place

Summerour Hall—Behavioral Science, Education and Psychology

J. Mabel Wood Hall—Music

Lynn Wood Hall—Alumni, Conference Rooms

Wright Hall—Administration

Other facilities on or near campus that serve student needs:

Collegedale Academy—secondary laboratory school

Collegedale Seventh-day Adventist Church

Charles Fleming Plaza—shopping center with businesses serving the college and community

Recreational Area—tennis courts, a track, playing fields

Arthur W. Spalding Elementary School—laboratory school

Student Apartments

Student Park

Talge Hall—men's residence hall

Thatcher Hall—women's residence hall

WSMC FM90.5—radio station

Various auxiliary and vocational buildings house college industries and service departments.

# ADMISSIONS

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Southern College welcomes applications from students, regardless of race, sex, religion, or national origin, whose principles and interests are in harmony with the ideals and traditions of the college as expressed in its objectives and policies. Although religious affiliation is not a requirement for admission, all students are expected to abide by the policies and standards of the college as a Seventh-day Adventist institution.

## PREPARATION FOR FRESHMAN STANDING<sup>1</sup>

Applicants for regular admission as freshmen must submit three satisfactory recommendations to the Admissions Office and satisfy one of the following three conditions at the time of enrollment:

### *Regular Acceptance*

- A. Graduate from an approved secondary school, including Home Study International, with a grade point average (GPA) of at least 2.00 (on a 4.00 scale) in major subjects<sup>2</sup> and have a minimum composite score of 18 on the Enhanced American College Test (ACT).
- B. Pass the General Education Development (GED) test, have a composite score of 18 on the Enhanced ACT, and be eighteen years old by June 1 (prior to admission). Each applicant must have an official transcript of his or her grades and credits sent to the Admissions Office from the high school most recently attended.
- C. Complete a minimum of eighteen secondary school units, fourteen of which must be in major subjects<sup>2</sup>, with a minimum GPA of 3.00 in the major subjects, and have a minimum composite score of 18 on the Enhanced ACT.

**Southern College must have received a final official high school transcript or GED scores and a transcript from the high school last attended from each new student before he or she will be admitted to registration.**

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<sup>1</sup>Those planning to enter professions such as nursing or music education should consult departmental admission requirements.

<sup>2</sup>Bible, English, mathematics, natural science, social science, and foreign language.

*Acceptance on Academic Probation*

- A. If either the high school GPA or ACT composite score is below the minimum requirements as stated above, the student may be accepted on academic probationary status.
- B. Students accepted on academic probation may take no more than 12 semester hours during the first semester.

If both the high school GPA and the Enhanced ACT composite score are below the minimum requirements (2.00 and 18 respectively), it will be necessary for the student to take a minimum of six semester hours (in solid courses) and maintain a college GPA of 2.25 before being accepted at Southern College. These six hours may be taken at Southern College during the summer (last session excluded) or at another accredited college.

*Subjects Required for Admission*

Applicants to freshman standing are expected to have the following minimum subjects in their secondary program:

1. Three units of English, excluding journalism and speech.
2. Two units of mathematics, including algebra.
3. Two units of science or an ACT score of 14 in science reasoning. A college class in biology, chemistry, or physics must be taken in addition to general education requirements if this condition is not met.
4. Two units of social studies. If one of these two units is not World History, HIST 174, 175, 364, 365, 374, 375, 386 or 389 must be taken as part of the general education science requirements.
5. Two units in a foreign language for a B.A. degree are required. If deficient, one year of a foreign language at the college level will be required.
6. One unit in typing is strongly recommended.

**ADMISSION TO THE NURSING DIVISION**

Students who wish to be admitted to nursing courses as freshmen or as transfer students should refer to the Nursing section of the CATALOG for admission requirements.

**ADMISSION OF TRANSFER STUDENTS**

Students wishing to transfer to Southern College from another accredited college or university must follow the same application procedure as other students. Transfer credits may be applied toward the requirements for a degree when the student has satisfactorily completed a minimum of twelve semester hours in residence. Credit by

examination taken at other colleges will be accepted according to Southern College standards (see "College Credit by Examination" in the Academic Policies section of the CATALOG). A maximum of 72 semester hours may be accepted from a college where the highest degree offered is the associate degree. Background deficiencies revealed by transcripts and entrance examinations will be given individual attention.

Credit will be granted for courses taken at institutions which are not regionally accredited only after the student has completed at least 16 semester hours at Southern College with a 2.00 or better average. Only those courses that are comparable to Southern College courses and for which the student has earned a "C" grade or better will be accepted.

A student who has been dismissed from another institution because of poor scholarship or citizenship, or who is on probation from that institution, is not generally eligible for admission until he can qualify for readmission to the institution from which he has been dismissed. **Transfer students must submit both their college and high school official transcripts to the Admissions Office before being admitted to registration. Those who do not have credit for first semester College Composition and three semester hours of college level mathematics will be required to take the Enhanced ACT (American College Test) prior to registration at Southern College.**

### ADMISSION OF SPECIAL STUDENTS

Mature individuals who do not meet the above college admission requirements and who do not wish to become degree candidates, or otherwise qualified students who may desire limited credit for transfer to another institution of higher learning, may register as special students. A special student may enroll for a maximum of five semester hours per term.

### ADMISSION OF INTERNATIONAL STUDENTS

An international student making application to Southern College must have completed the equivalent of a United States high school (secondary) education. The student is required to list only the institutions and dates attended on the application forms, but will not be accepted to Southern College until the college has received original records or official copies of all credits, degrees, diplomas and other credentials, with validation by school or national officials. These should be in the original language, accompanied by a translation (not an interpretation) in English, and certified by an American Embassy official if possible.

The Vice President for Admissions of Southern College will evaluate academic documents received for international students based on the recommendations found in the World Education series of booklets published by the American Association of Collegiate Registrars and Admissions Officers and Patterns of Seventh-day Adventist Education, published by the General Conference of Seventh-day Adventists.

Students from countries which administer the G.C.E. (General Certificate of Education) examinations must have earned five (5) or more "O" level academic subject passes (generally at one sitting, with marks 1 through 6 or A through D). Subjects must include English, a natural science, and three others selected from a second language, mathematics, science, and social studies.

Proficiency in English, both written and oral, must be proven before admission. This may be done by taking the English Language Proficiency Test (ELI) or Test of English as a Foreign Language (TOEFL). Students whose ELI score is below 90 or TOEFL score is below 500 will not be admitted. Students must reach the above stated score to be admitted to the college for the regular academic year.

In addition to the regular college expenses, there are other expenses for an international student. (Please refer to the Financial Information section of the CATALOG.)

International students should realize that according to U.S. Immigration laws, overseas students are not permitted to work more than 20 hours per week and may not be employed except on the college campus.

It is important that international students not leave their homeland until they receive an official letter of admission from Southern College. Such a letter will be issued only if the student's academic credentials are satisfactory, a surety advance deposit has been made, and the student is able to demonstrate the ability to finance his/her education at Southern College. Then the (Immigration) I-20 form will be issued.

When students depart from their homeland, they should have in their possession:

1. An admissions letter of acceptance from Southern College
2. I-20 form
3. A valid passport
4. A valid visa to enter the United States
5. Sufficient funds for the first year at Southern College (in addition to the international surety deposit required of all non-U.S. citizens).

**APPLICATION PROCEDURE FOR ADMISSION**

- ◆ Prospective students should request application forms from the Office of Admissions.
- ◆ Completed applications, budget sheets, and medical forms should be returned to the Office of Admissions with an application fee of \$20.
- ◆ It is the student's responsibility to request any former schools (high school and college) to forward transcripts to the Office of Admissions in support of the application. These will become the property of the college. **NO TRANSCRIPT WILL BE ACCEPTED DIRECTLY FROM AN APPLICANT.**
- ◆ Students transferring from another college or university who do not have credit for first semester College Composition and three semester hours of college level mathematics will be required to take the ACT prior to registration at Southern College.
- ◆ Upon receipt and evaluation of the application, transcripts of credits, recommendations, and test scores, the Admissions Committee will notify the applicant of the action taken.

**WHEN TO APPLY OR REAPPLY**

New students are urged to submit applications no later than the last term of the senior year of high school. Applications submitted at the beginning of the senior year will sometimes enable the college to suggest ways of strengthening the student's preparation. Because of the difficulty sometimes encountered during the summer months in obtaining necessary transcripts, test scores, and recommendations, more time will be necessary for processing late applications.

Students in residence may submit reapplications without charge until April 30; thereafter the regular application fee of \$20 will be required.

# FINANCIAL POLICIES

## EXPENSES

### FINANCIAL BUDGET AND CAMPUS EMPLOYMENT

Southern College tries to give every student the opportunity to obtain a Christian education. Every effort will be made to assist students in meeting their financial obligation in order to reach this goal.

The Student Finance Office will assist students in their financial planning. Financial aid is available to qualified recipients in the form of grants, loans, scholarships and employment (see page 30). Before registration each student must submit a payment contract to the Student Finance Office signed by the student and financial sponsor indicating how college expenses will be paid.

Information on student costs and means of paying those costs is given below to assist the student in financial planning.

### STUDENT COSTS

#### *Tuition 1993-94:*

Students taking 1-11 semester hours will be charged at a rate of \$337 per semester hour. Students taking 12-16 semester hours will be charged \$3,994. Additional hours will be charged at the rate of \$252 per semester hour. Summer school tuition will be charged at the rate of \$252 per semester hour.

### ESTIMATED STUDENT BUDGET

	<i>Residence Hall Student</i>		<i>Non-residence Hall Student</i>	
	<i>Semester</i>	<i>Year</i>	<i>Semester</i>	<i>Year</i>
Tuition (12-16 hrs/semester)	\$3,994	\$7,988	\$3,994	\$7,988
Dormitory Rent	735	1,470		
Food (\$236 monthly average Monthly minimum charge \$85)	945	1,890		
Books and School Supplies	240	480	240	480
Total Estimated Costs*	\$5,914	\$11,828	\$4,234	\$8,468

(Health insurance, automobile parking, and Campus Shop personal purchases are in addition, if applicable.)

\*With financial aid and/or labor, this total figure can be substantially reduced.

### FAMILY REBATE

When two students from the same immediate family are both enrolled as full-time students (taking 12 hours or more) at SC and have the same financial sponsor, a tuition rebate of 5 percent will be applied

## EXPENSES

to each statement. A 10 percent rebate will be applied when three or more students have the same financial sponsor and are enrolled as full-time students. Application forms for this rebate are available at the Cashier's Office.

### SOUTHERN SCHOLARS' FINANCIAL BENEFITS

After completing one year in the honors program, Southern Scholars may receive a waiver for the cost of auditing one class each semester that they remain in the program. Upon successful completion of the program students will receive a tuition refund equivalent to four three-hour classes. The "per hour" rate for a 16-hour class load will be the basis for calculating the refund. Southern Scholars also receive a 100 percent tuition waiver for Honors Seminar, HMNT 451, 452, calculated according to the tuition waiver policy explained on pages 24 and 25.

### MUSIC LESSON FEES

Private music lessons may be taken on a credit or noncredit basis. A student will receive 14 half-hour lessons per semester for one hour of credit. The cost of such lessons is the regular tuition plus a \$124 music lesson fee per semester for both credit and non-credit lessons. This fee applies to both music majors and non-music majors.

Teachers are not expected to make up lessons missed because of unexcused absences.

Community School of Music students (non-college students) register for private and group lessons at the Music Department Office. Each student is required to pay a yearly registration fee of \$15. Lessons are to be paid for in advance either by the semester or by the month.

### SPECIAL FEES AND CHARGES

The following special fees and charges\* are assessed separately inasmuch as they may not apply to all students nor do they occur regularly:

Application for admission (not refundable) . . . . .	\$20.00
Audit tuition . . . . .	1/2 reg. tuition
Automobile parking fee (per semester):	
Dormitory . . . . .	\$36.00
Village . . . . .	\$26.00
Motorcycle parking fee . . . . .	\$26.00
Cancellation of registration . . . . .	\$50.00
Change of program . . . . .	\$12.00
Credit by examination (per hour) recording fee . . . . .	\$35.00
Examinations:	
Challenge or waiver . . . . .	\$48.00
CLEP . . . . .	\$40.00
Rescheduling mid-term or final . . . . .	\$63.00
Incomplete grade recorded . . . . .	\$7.50



Insufficient funds check fee and penalty .....	\$18.00
<b>**Insurance:</b>	
Student .....	\$235.00
Spouse .....	\$725.00
Children .....	\$575.00
Late Registration .....	\$35.00
Late return of organizational uniform .....	\$20.00
(The full cost will be charged if irreparably damaged or not returned.)	
Lost residence hall key or replacement:	
Talge Hall .....	\$10.00
Thatcher Hall .....	\$20.00
Lost student I.D. or replacement ( <b>must pay cash</b> ) .....	\$5.00
Medical Technology recording fee (senior year) .....	\$55.00
<b>***Nursing education fees:</b>	
Associate degree (per semester) .....	\$270.00
Baccalaureate degree (after completing Assoc. Degree) (per nursing semester hour) .....	\$13.00
Registration Fee (processing documents) .....	\$25.00
Transcript Fee — Same Day Service .....	\$5.00

\*See individual class descriptions for class fees and charges.

\*\*Subject to change by insurance company.

\*\*\*Declared nursing majors enrolled in a nursing class.

## STATEMENT CHARGES

The following items may be charged to the student's account:

- a. Books and required school supplies (required school supplies limited to \$85 per semester).
- b. Private music instruction. Enrollment for all music instruction must be made through the Admissions Office for a full semester whether or not credit is desired. One semester hour of private music instruction consists of fourteen half hour lessons. Refunds will be granted only when the instructor is not available for lessons.

## HOUSING

### *Residence Hall Costs*

Dormitory accommodations for single students cost \$1,470 for the eight-month school year and are charged on a semester basis in August and January. Room charges are based on two students occupying one room. A student may, upon application to the residence hall dean, be allowed to room alone at an additional cost of \$320 per semester if sufficient rooms are available and s/he has approval from the Student Finance Office. It is the student's responsibility to have arranged for a roommate unless specific arrangements have been made to room alone. No pets are allowed in the residence halls.

No refunds are made for vacation periods or absences from the campus. When a student withdraws, a prorated portion of the semester charge, beginning with the date of nonoccupancy of the room, will be refunded.

### *Residence Hall Deposit*

A room deposit of \$100 is required of each dormitory student. In order to guarantee a room in the dormitory, payment should be made by July 1. After July 1, no room is held for a student whose deposit has not been paid. This deposit is held in reserve until the student graduates and/or permanently moves out of the dormitory.

### *Apartment*

College-owned apartments may be rented by married students taking a minimum of six hours each semester. The apartments range in size from two to six rooms and are unfurnished. Rents range from \$225 to \$350 per month. Rent charges are based on the date of issue and return of keys and proper clearance with the office of the Vice President for Finance. No pets or firearms are allowed in college housing.

### *Apartment Deposit*

Married students renting an apartment from the college are required to pay a housing deposit of \$175 of which \$100 is due with the housing application and the remaining \$75 at the time the apartment is rented.

### *Housing Deposit Refund*

If a student gives notice before August 1 that s/he will not be attending, the housing deposit will be refunded. The deposit will not be refunded after August 1.

Damage or cleaning charges may also be charged to the student's account if the deposit is insufficient to cover these costs. The dormitory dean/Service Department will determine if the dorm room/apartment or trailer has been left clean and undamaged.

## FOOD SERVICE

The cafeteria plan of boarding allows the dorm student the privilege of choosing food and paying for what is selected. Students are encouraged to eat healthfully by eating at the cafeteria or the Campus Kitchen where balanced meals are provided. Dormitory students will be charged a minimum of \$85 per month which will be prorated for vacations and holidays.

## ADVANCE PAYMENTS

*Regular:* An advance payment of \$1,850 is required before registration with one-half of the advance payment (\$925) being held for second

semester. For new students entering second semester the advance payment is \$925, and all other appropriate charges are applicable. When a married couple enrolls for a combined total of seventeen semester hours or less of classwork, they will be charged only one advance payment.

One-half of the advance payment (\$925) is held for second semester and earns interest at an APR of 2 percent less than prime for the months of September, October, November, December if: (1) the full advance payment (\$1,850) has been paid by September 1, and (2) the account balance as of December 31 is paid in full. Interest will be credited to the January statement.

For students residing in any dormitory or married student housing, a housing deposit is due before occupancy and is in addition to the advance payment.

*International Students:* In addition to the regular advance payment listed above, international students are required to pay the following:

*Supplemental International Student Payment:* \$3,000 is required to be paid before an Immigration I-20 form will be issued. It will be held until the student terminates study at Southern College. This deposit is not a part of, but in addition to, the regular advance payment required of all students entering Southern College.

*Nursing Students:* Upon acceptance to the clinical nursing program, students are required to send an advance payment of \$270 to hold their placement in the class. This payment also serves as the first semester's Nursing Education Associate Degree Fee. The \$270 fee is in addition to the Regular Advance Payment of \$1,850. There is also a \$270 fee charged to the A.S. nursing student's account second semester. If a student applies for the nursing program but does not attend the college, or changes his or her major, the deposit is refundable if the Department of Nursing is notified by August 1. After August 1, the nursing deposit is not refundable.

## ADVENTIST COLLEGES ABROAD FINANCIAL POLICY

Students wishing to apply for study abroad under the Adventist Colleges Abroad (ACA) program must follow the procedures listed below:

1. Obtain an ACA application from Southern College's Admissions Office.
2. Complete and return the ACA application, along with a \$100 application fee, to the SC Admissions Office.
3. Financial policies for expenses and fees for ACA are available through the Student Finance Office, the Admissions Office, and the Modern Languages Department.

## METHOD OF PAYMENT

Residence hall and nonresidence hall students may choose one of the three methods of payment below:

*Payment Plan I—Cash in Advance.* When the total estimated charges for tuition (minimum 6 hours), room, and board for a semester are paid in cash at registration, a discount of 3 percent for the semester or 5 percent for the year is allowed on this cash payment. Amounts paid as a result of student loans, grants, or scholarships are excluded from the amount on which the discount is allowed. Students choosing to pay cash in advance must on or before registration time, pay the full amount required by the plan for the semester or year, less any advance payments or credits.

The following schedule outlines how *Payment Plan I* would work for both a semester and the year:

	<i>Residence Hall Student</i>		<i>Non-residence Hall Student</i>	
	<i>Semester</i>	<i>Year</i>	<i>Semester</i>	<i>Year</i>
Total estimated charges (see Estimated Student Budget)	\$5,914	\$11,828	\$3,994	\$7,988
*(a) Less cash discount (3% for semester)	-177		-120	
or				
*(b) Less cash discount (5% for year)		-592		-399
Net cash due at registration	<u>\$5,737</u>	<u>\$11,236</u>	<u>\$3,874</u>	<u>\$7,589</u>

Note: For calculating the discount, estimated charges may be reduced by approved financial aid and scholarship awards (excluding student wages). Cash discount applies to the cash paid at registration.

*Payment Plan II—Tuition Guaranteed Plan.* The college will guarantee to the student that tuition will remain constant under the following provisions:

1. This plan is not available to students receiving financial aid. However, parents taking a Parent Plus Loan may include this amount in their payment.
2. The tuition rate in effect at the time of the first contract will remain in effect until the student graduates provided full time continuous registration is maintained not to exceed four years excluding a one-year leave of absence which may be given for student missionaries, ACA, or task force workers.
3. Total estimated cost for the year must be paid prior to or at fall registration.
4. Any cash withdrawals, except student earnings, will void the contract.

5. Participants in this plan are eligible for a 5 percent cash discount on the total estimated cost the first year of participation only. The next three years, the tuition rate will remain the same as year one; and a 5 percent discount will be given on room, board, and books only.
6. Dependents of denominational workers may deduct the denominational tuition assistance when making their payment; however, the tuition assistance must be received by the college from either the denominational employer or the denominational worker within two months after registration or the contract is void.
7. Student earnings may be withdrawn from the student's account and will not reduce the amount to be paid.
8. Costs in excess of the total estimated amount to be paid will be billed monthly and should be paid on a monthly basis or the contract is void.
9. Should the estimated cost be less than the amount paid, the credit will be refunded after June 1.
10. If the Payment Contract is broken for any of the above reasons, or the student withdraws during the school year, the student who re-enters Payment Plan II may do so based on the rates of enrollment for the new year.

This plan only guarantees the tuition rate—not the room, board, books, and other miscellaneous charges. The student/financial sponsor must prepay each year the total estimated costs.

*Payment Plan III—Contract for Monthly Payments.* Students desiring to pay educational expenses in installments on a monthly basis may choose this plan.

Monthly statements will be issued about the fifth working day of each calendar month. Cafeteria charges will be charged through the last day of each month. Accounts are due and payable upon receipt of statement according to the following schedule:

#### FIRST SEMESTER

	Past Due Date
August Statement	
1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.	
2. Plus the current month's charges less the current month's credits.	September 20

**FIRST SEMESTER, cont.****Past Due Date**

- September Statement
1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.
  2. Plus the current month's charges less the current month's credits. **October 20**
- October Statement
1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.
  2. Plus the current month's charges less the current month's credits. **November 20**

**SECOND SEMESTER**

- January Statement
1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.
  2. Plus the current month's charges less the current month's credits. **February 20**
- February Statement
1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.
  2. Plus the current month's charges less the current month's credits. **March 20**
- March Statement
1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.
  2. Plus the current month's charges less the current month's credits. **April 20**

An example of estimated school costs on this plan without financial aid, work, or scholarships is as follows:

<i>Statement Date</i>	<i>Payment Date</i>	<i>Residence Hall Student</i>	<i>Non-Residence Hall Student</i>
Advance Payment	By registration	\$1,850	\$1,850
August 31	By September 20	1,663	1,103
September 30	By October 20	1,663	1,103
October 31	By November 20	1,663	1,103
January 31	By February 20	1,663	1,103
February 28	By March 20	1,663	1,103
March 31	By April 20	<u>1,663</u>	<u>1,103</u>
Total estimated payments		\$11,828	\$8,468

**Students with unpaid accounts on the 20th of the month will be subject to cancellation of registration and/or ID cards invalidated until account is current.**

**Arrangement for final payment of the semester account must be made before semester examinations may be taken or before registration for a new semester**

### INTEREST ON PAST-DUE BALANCE

If a past due balance on the November statement is not paid by December 20, a service charge of 5 percent of the past due amount will be applied to the December statement. If a past due balance on the March statement is not paid by April 20, a service charge of 5 percent of the past due amount will be applied to the April statement. A monthly service charge of 1¼ percent will be charged on any past due balance for the months of May, June, July, and August.

### COLLECTION POLICY

Students completing or terminating their studies with the college are required to make arrangements for payment of unpaid accounts prior to leaving by signing a promissory note. Payments due on noncurrent accounts that are not received by the last working day of the month will be charged a 1¼ percent per month service charge.

When a student who was enrolled first semester does not enroll second semester and has left with an unpaid account, that account will be turned over to Southern College's Collections Office by February 15.

When a student leaves at the end of second semester who has not re-applied, the account will be turned over to the SC Collections Office by June 15.

When a student leaves at the end of second semester with an unpaid account who has re-applied for the following year, the student will have May through August to bring the account current. If the student

decides not to return, then this account will be turned over to the SC Collections Office by September 15.

At the time any account is turned over to the SC Collections Office, a carrying charge of 1¼ percent per month will apply.

If no payment response to correspondence or communication is received with 90 days after the SC Collections Department receives the account, the unpaid account balance will be submitted to a collection agency or attorney.

Since delinquent accounts are reported to the Credit Bureau systems, prompt payment of accounts builds credit ratings which will be important to the student in the future.

If the college deems it necessary to employ a collection agency or an attorney to collect defaulted accounts, all charges for these services, including court costs, if incurred, will be added to unpaid bills.

### **BANKRUPTCY**

Recognizing that the discharge of a debt through bankruptcy proceedings prohibits a creditor from subsequently pursuing the collection of the debt, the college, upon notification by the court of such discharge of a student's current school or loan account(s), complies with this legal prohibition. No further services will be extended.

### **TRANSCRIPTS, DIPLOMAS, AND TEST SCORES**

It is the policy of the college to withhold transcripts, diplomas, test scores, certificates of completion, and other records if a student has an unpaid or past-due account at the school, or any unpaid account for which the college has co-signed.

Official grade transcripts will be issued for currently enrolled students when the students' accounts are current according to the payment schedule set forth above. No exceptions will be made.

Official grade transcripts for nonenrolled students will be issued when students' accounts are paid in full and when there are no delinquencies in the payment of student loans. No exceptions will be made.

To expedite the release of these documents, the student should send a money order or certified check to cover the balance of the account when requesting the documents. Under provisions of federal loan programs, Southern College withholds any records when payments for these loans become past due or are in default.

### **TUITION WAIVERS**

Tuition waivers are available for internships, cooperative education, and practicum classes. Ordinarily, the waiver is explained in the course description, but students may enroll for a practicum or internship under Directed Study and become eligible for a two-thirds tuition waiver.



To be eligible for a tuition waiver students must be enrolled in fewer than 11 hours excluding their tuition waiver class, or more than 16 hours including their tuition waiver class. The waiver is calculated on the margins of hours below 12 and above 16 resulting from the tuition waiver class.

Tuition waivers, if any apply to classes involving tours, are calculated according to approved travel arrangements.

## REFUND POLICIES

### *Complete Withdrawal from Classes*

A student who withdraws from all school work during the semester will receive a tuition refund based on the date the completed withdrawal form with all the required signatures is filed with the Records Office. A \$50 withdrawal fee is applicable at whatever time the complete withdrawal occurs. Tuition refunds are calculated as follows:

1st Week	100%	6th Week	50%
2nd Week	90%	7th Week	40%
3rd Week	80%	8th Week	30%
4th Week	70%	9th Week	20%
5th Week	60%	10th Week	10%
		11th Week	0%

### *Partial Withdrawal*

Refunds of tuition for semester hours dropped are made according to the date the drop form with all the required signatures if filed with the Records Office. Tuition refunds are calculated as follows:

First week of the semester — 100%

Second week through the eleventh week — 10% less per week

No refunds after the eleventh week

### *Shortened School Term (Summer or Other) Withdrawals and Changes*

First two (2) school days — 100%

Third (3rd day through end of term) — Prorated through mid-term

## CREDIT REFUND POLICY

Credit balances are refundable, upon request, 30 days after the monthly statement is received for the last month the student was in school in order to be certain that all charges have been processed. For example, if a student drops out of school in December, a full credit refund would not be made until after the January statement is prepared during the first week of February. When the credit balance is large, a portion may be refunded earlier upon request to the Student Finance Office.

If the student has received financial aid during the current semester, any credit balance will be credited to the aid funds, according to the Financial Aid Refund Policy (see page 34). Cash refunds will not be made to the student without authorization from the parent or financial sponsor.

### HEALTH AND ACCIDENT INSURANCE

Southern College requires all students to be covered by health and accident insurance. Each student will automatically be enrolled in the college health and accident plan unless the s/he signs a waiver card at the time of registration indicating s/he does not want the college insurance because:

1. The student has other insurance equal to or better than the college insurance plan.
2. The student is covered under the SDA denominational health care plan.
3. The student does not live in college-owned housing and is taking less than six semester hours of classwork during the fall and spring semesters or less than three hours of classwork in the summer.

### NON-LIABILITY FOR PERSONAL EFFECTS

When determining what to bring to campus, students should remember that the college is not responsible for the personal effects of any student even though such effects may be required by the college for student use, or required by the college to be stored in a designated location. College-carried insurance does not insure the personal effects of any individual. The college recommends that students consider carrying insurance to cover such losses.

### WORKER'S COMPENSATION INSURANCE

As provided by the laws of the State of Tennessee, the college carries worker's compensation insurance to protect all employees in case of work-related accidents.

### STUDENT BANKING SERVICE

When opening a student bank account, the student or financial sponsor may contact the Cashier's Office to make the proper arrangements. This is entirely separate from the student's school expense account. Withdrawals from this account may be made by the student in person as long as a credit balance and proper identification are provided. If a check is deposited into this account, the student must wait two weeks for it to clear the banking system before a withdrawal may be made.

## CHECK CASHING

Students are encouraged to use their home banks or a local area bank for their personal financial services. The Cashier's Office will cash approved checks not to exceed \$300. No third party checks will be honored. Checks must be made payable to either the student or cash. Proper identification is required.

Each time a check is returned by a bank for insufficient funds, account closed, or any other reason, there will be an \$18 returned check fee made to the student's account. The student then forfeits the privilege of cashing future checks.

## CREDIT CARDS

The Cashier's Office honors VISA, Master, and American Express cards for making payments on a student's account. No cash withdrawal service is available from these cards — this service may be obtained from a local bank.

When using a credit card to pay on an account, the following information must be supplied: 1) name of credit card being used; 2) cardholder's name; 3) credit card number; and, 4) expiration date.

## STUDENT LABOR REGULATIONS

Work opportunities are available in departments and industries operated by the college and local private businesses. These employing agencies must serve their customers daily, necessitating a uniform work force. Students are expected to maintain satisfactory job performance and meet all work appointments, including during examination week. Work superintendents reserve the right to dismiss students if their service and work records are unsatisfactory. Should a student find it necessary to be absent from work, s/he must make arrangements with the work superintendent and, if ill, with Student Health Service.

Residence hall students are given preference in the assignment of work. Personnel/Student Labor personnel will assist students in finding jobs provided the 1) student arranges a class schedule that allows "blocks" of time for work, and 2) is physically able and willing to accept any job offer since the college is unable to provide "preference" work. Students must be enrolled for a minimum of six semester hours to be eligible for campus work.

A student accepting employment is expected to retain it for the entire semester except in cases where changes are recommended by the school nurse or Personnel/Student Labor Office. Should a student receive opportunities for more favorable employment during a school term, the transfer must be made through the Personnel/Student Labor Office and the two employing organizations. If a financial plan requires work, the student must NOT drop his/her work schedule without making proper

## **EXPENSES**

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arrangements with the Personnel/Student Labor Office. To do so may result in suspension from class attendance and invalidation of ID card until proper arrangements are made.

The student pay rate is not less than the current minimum wage rate. It may be higher if a student possesses special skills or training and shows responsibility and consistency.

Students may work off campus; however, permission may be withheld for off-campus employment that could be detrimental to a student's health or character development. Any exceptions to the financial policies will be considered by the Financial Appeals Committee.

### **SUMMER WORK INCENTIVE PROGRAM**

1. Work supervisors may recommend raises for a student's summer wage within the pre-set wage rate scale.
2. Two-thirds of the dormitory student's summer rent to be refunded, provided:
  - A. A minimum of 200 hours of summer work is completed.
  - B. The student is enrolled for at least six hours for the fall term.
3. Any variation to the above plan must be approved by the Administrative Council.

### **LABOR FOR FOREIGN STUDENTS**

Foreign students on non-immigrant visas are required by law to secure permission before accepting any off-campus employment. Foreign students with student visas are allowed to work on campus up to twenty hours a week. Spouses may work only if they have student visas of their own or have immigrant visas.

### **STUDENT TITHING**

Southern College encourages the payment of tithe and offerings by its student workers. In order to facilitate this practice, arrangements may be made by the student (except for those employed in the Federal Work-Study Program) to have 10 percent of his/her school earnings charged to his/her account as tithe and 2 percent for offerings. These funds are then transferred by the college to the treasurer of the Collegedale Seventh-day Adventist Church.

### **STUDENT MISSIONS PROGRAM/ TASK FORCE POSITIONS**

Any student desiring to serve as a Student Missionary or in a Task Force position needs to work with the Chaplain's Office. The General Conference policy requires the completion of the course, Student Missions Orientation Class, RELP 099, prior to placement in a volunteer position. The orientation class is taught the last nine weeks of the second semester. Students who register for RELP 099 will not receive any academic credit hours.

Those students who desire deferment on their student loan payments during their mission service placement must enroll in: NOND 227 Christian Service I, 6 hours, and NOND 228 Christian Service II, 6 hours.

To receive 12 hours of academic credit, the student must complete a full academic year of service. Students enrolled in NOND 227 and 228 must have taken RELP 099 as a prerequisite. A maximum of 12 hours is available during the year of service. Tuition is charged at 10 percent of the current rate. Specific details regarding academic assignments may be obtained from the Chaplain's Office.

Before final authorization may be obtained, all students going as Student Missionaries or Task Force workers must be cleared by the Student Finance Office.

**POST GRADUATE TUITION PLAN**

A Post Graduate Tuition Plan has been established for the purpose of assisting students who have graduated from an accredited college/university and have an earned bachelor's degree. This plan becomes effective May 1, 1993. The plan allows eligible students to enroll in classes for one-half tuition. Tuition rates are as follows:

1-11 Semester Hours . . . . .	\$169.00
12-16 Semester Hours . . . . .	\$1,997.00
17+Hours (in excess of 16 hours) . . . . .	\$126.00

The provisions that apply are:

1. To be eligible for the Post Graduate Tuition Plan, a student must have graduated with a bachelor's degree at least two years before entering the program.
2. Applicants must have a clear financial SC account and all loan payments must be up-to-date at the time of registration before the Post Graduate Tuition Plan is approved. To continue to participate in the plan, students must reapply each semester. If a participant's account or loan payment becomes delinquent, that student will lose his/her Post Graduate Tuition Plan privileges and cannot be reinstated.
3. Regular readmission criteria apply to this program. Completed applications and other college transcripts must be on file in the Admissions Office no later than four weeks prior to the beginning of the semester for which the graduate is applying.
4. Students wishing financial aid must apply through the Student Finance Office.

5. This plan is applicable to classes where space is available and where the hiring of new faculty or staff is not required. The Post Graduate Tuition Plan does not include private music lessons, independent study, directed study, student teaching, internships, A.S. nursing, the fifth year of a five-year degree program, or a program where a tuition discount is already in effect.
6. Since the Post Graduate Tuition Plan offer is for **tuition only**, it does not apply to lab fees, surcharges for applicable courses, dormitory charges, books, or cafeteria charges.
7. This program is open to a limited number of students. Southern College reserves the right to discontinue or amend this special tuition offer at the discretion of the college administration.

### SENIOR CITIZEN TUITION PLAN

Persons over 65 years of age may audit any regular college course free of charge, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may take classes for college credit at one-fourth the regular rate, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may enroll in seminars, workshops, other courses offered outside the regular academic structure, and private lessons at full price.

### FINANCIAL AID

Southern College provides financial aid for students in the form of loans, grants, scholarships, and employment. No applicant for financial aid will be denied assistance on the basis of sex, race, color, national origin, or ethnic group. The Student Finance Office follows established procedures and practices which will assure equitable and consistent treatment of all applicants.

Students are urged to contact the Student Finance Office, P.O. Box 370, Collegedale, Tennessee 37315-0370, (1-800-SOUTHERN), for information about and applications for financial aid. Applications received by May 1 will be given preference. Applications received after May 1 will be processed as long as time and funds permit.

*General Requirements.* Financial aid awards are made for one academic year to students who are accepted for admission, plan to take at least twelve semester hours of classwork each semester, and demonstrate financial need. Class load exceptions must be approved by the Student Finance Office. Recipients of government aid must hold U.S.

**citizenship** or a permanent resident visa. (Visa documents must be submitted with aid application.) Students desiring aid **must** reapply each year, have a GED or high school diploma on file in the Records Office, and continue to make satisfactory academic progress toward a degree to receive financial aid.

*Academic Requirements.* In order to be eligible for financial aid, recipients must maintain satisfactory academic progress toward a degree. (Satisfactory academic progress is defined in the following section.) If a student does not maintain satisfactory academic progress or fails to attend classes, prepare and submit required classwork, or take required examinations, financial aid will be suspended.

If a student whose financial aid has been suspended for any of the above reasons feels that unusual and unavoidable circumstances led to this suspension, the suspension may be appealed to the Academic Progress Committee. This policy is generally applied to financial aid from institutional and private sources as well as federal programs.

*Financial Need Requirements.* The financial aid program is administered in conjunction with the nationally-established policy and philosophy which is, that **the parents are the primary and responsible source for helping a student to meet his educational costs.** Financial aid is available to help fill the gap between the student's own resources (parental contribution, summer earnings, and savings) and the total cost of attending Southern College. The amount of parental contribution is based on the family's net income, number of dependents, allowable expenses, indebtedness, and assets. The Family Financial Need Analysis from the American College Testing Program or College Scholarship Service is used in determining a student's eligibility for financial aid.

*Exceptions to the financial need requirements are private scholarships awarded on the basis of academic achievement.*

## **SOUTHERN COLLEGE ACADEMIC PROGRESS FOR FEDERAL AND INSTITUTIONAL STUDENT FINANCIAL AID**

According to the 1986 Higher Education Amendments, all financial aid recipients must maintain satisfactory academic progress toward a degree, both in a qualitative and a quantitative measure, in order to continue to receive financial aid.

A financial aid recipient's progress at Southern College will be based on the student's **enrollment status** which is determined by the number of hours attempted. **Academic progress** will be measured by the number of hours the student has successfully completed during the semester.

## FINANCIAL AID

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A financial aid recipient will be expected to complete not less than the minimum hours required by his enrollment status of:

1. Full time            12 hours or more
2. 3/4 time            9-11 hours
3. 1/2 time            6-8 hours

This would allow a student the equivalent of 10 full-time semesters to complete a four year degree; and the equivalent of six full-time semesters to complete a two year degree.

The formula for academic progress is: enrollment status (as outlined above) x 12 hours (full time equivalent) = hours needed for progress.

For the purpose of this policy, a student must also maintain a cumulative and resident grade point average above the suspension levels as stated in the following schedules:

<i>Cumulative Semester Hours</i>	<i>Required GPA Level (Includes Resident and Cumulative GPA)</i>
6 - 48	1.50
49 - 64	1.65
65 - 80	1.75
81 - 93	1.85
94 - 119	1.95
120 up	2.00

A student's financial aid will be suspended if s/he does not maintain satisfactory academic progress as set forth above.

### *Financial Aid Probation Policy*

1. Students who fail to maintain "satisfactory academic progress" will be placed on financial aid probation the following semester. The recipient must see a financial aid counselor before aid will be released for the probationary semester. This aid is subject to adjustment or cancellation.
2. A minimum Southern College and cumulative GPA as listed in the requirements above must be attained by the end of the probation semester or financial aid will be suspended.

### *Procedure for Appeal and Reinstatement of Financial Aid*

Students may submit a written appeal to the Academic Progress Committee describing the circumstances which contributed to their failure to make academic progress. This appeal must also include an outlined program of commitment to meet measurable satisfactory academic requirements.

When financial aid is suspended, a request for reinstatement may be made when the student has completed a minimum of 12 additional semester hours and has met the satisfactory academic requirements.



*Provisions for Transfer Students*

Financial aid for students transferring from other institutions will be determined by their academic standing, which will be calculated on all hours they have attempted. Students with a GPA below the policy stated above will be on financial aid probation provided that they were eligible for continuing aid at the institution from which they transferred.

If financial aid had been suspended at the previous institution, they must follow Southern College's procedure for appeal and reinstatement of financial aid.

**FINANCIAL AID APPLICATION PROCEDURES**

To apply for all types of financial aid, the following documents must be submitted annually for the federal, state, and institutional aid programs:

1. The Family Financial Statement (FFS) of the American College Testing Program or the Financial Aid Form (FAF) of the College Scholarship Service.
2. The Southern College application for financial aid (Form B).
3. Southern College Admissions application.
4. The financial aid transcript (required only of students who attended other colleges or universities before coming to Southern College).
5. Copies of parents' income tax return (exact signed copies of all schedules and W-2 forms sent to IRS).
6. Copies of student income tax return including W-2 forms.
7. Guaranteed Student Loan applications from hometown lender. (Southern College has arranged for last-resort lenders for students whose hometown lenders do not participate in the GSL program or for any reason refuse to make the loan).

Applications are available in January of each year and may be obtained by contacting Southern College Student Finance Office. Students are urged to complete applications as early as possible after the family income tax returns have been completed. Income tax returns only have to be *completed*, not necessarily mailed to the IRS before submitting the financial aid application.

*Financial Aid Award Procedures*

An official Offer of Financial Aid will be sent to each applicant. To confirm and reserve the funds offered, the student must return the signed acceptance of the offer within **ten days** of receipt.

Financial aid awards are made on a rolling basis, as long as funds are available, with the neediest students receiving priority of funds. The financial aid award package will usually consist of: 1) work, 2) loan, 3) grant or scholarship.

### *Disbursement of Financial Aid Funds*

Financial aid awards are disbursed equally at the beginning of each semester. To have funds released to statements, students must sign vouchers, and other required documents at the Disbursement Office in Wright Hall. Funds cannot be credited to student statements until this procedure is followed.

### *Financial Aid Overawards*

When financial aid recipients receive additional resources not included in the financial aid award letter, they must be reported to the Student Finance Office. Federal regulations prohibit "overawards," therefore, when the total of all resources exceeds the allowable student budget, financial aid awards must be adjusted. When financial aid funds have already been credited to the student's statement, any refunds due or overawards will be charged to the student's account.

## STUDENT FINANCIAL AID REFUND AND REPAYMENT POLICIES

### *Financial Aid Refund Policy*

The tuition refund policy for students withdrawing from classes is outlined on page 25.

Since financial aid is considered to be used first for direct educational costs (tuition, fees, board, and books), when a student withdraws from all classes and under the refund policy receives a refund of tuition, fees, dormitory rent, and other charges, the refund will be used to reimburse financial aid credited to the student account. The amount that must be repaid to Federal Title IV funds is determined by applying the following formula:

$$\text{REFUND X} = \frac{\text{Total Amount of Title IV Aid Awarded for Period (excluding CWSP)}}{\text{Total Amount of All Aid Awarded for Period (excluding employment)}}$$

According to Federal regulation, refunds due to Title IV programs must be allocated in the following order:

1. Outstanding balances on Federal Family Education Loan Programs—Stafford Loans, Unsubsidized Stafford Loans, Supplemental Student Loans, Parents Loans
2. Outstanding balances on Federal Perkins Loans
3. Federal Pell Grant Program
4. Federal SEOG Program
5. Other Title IV Programs
6. Student/Parent

### *Financial Aid Repayment Policy*

There are specific repayment policies for students who withdraw and have received financial aid in excess of direct educational costs. An example would be the student who received a Stafford Loan and did not use the full amount for educational costs. A student owing a repayment to any federally funded student aid program cannot receive any type of federal student aid for future enrollment periods until repayments have been made.

### **VETERANS**

Southern College is approved for the training of veterans as an accredited training institution. V.A. benefits are not available to students on the Orlando Campus and may not be available for students enrolled in classes offered off the Collegedale campus. Those who qualify for educational benefits should contact the nearest Veterans' Administration Office.

Veterans or other eligible persons are required to attend classes in order to be eligible for educational benefits. Southern College is required to report promptly to the V.A. the last day of attendance when an eligible student withdraws or stops attending classes regularly.

A recipient may not receive benefits for any course that does not fulfill requirements for his stated degree and major. Audited courses, non-credit courses (except for a required remedial course), and correspondence work cannot be certified.

### **TYPES OF FINANCIAL AID**

#### **Scholarships**

##### *General Institutional Scholarships*

Southern College institutional scholarships are awarded from a variety of scholarship funds to students who have financial need, are achieving academically, and are working part time. These awards usually range from \$200 to \$1,000 per year depending upon the student's need and availability of funds.

If the student's grade point average (GPA) falls below the required level, the SC scholarship will be deferred or canceled. The amount of the SC scholarship will be reduced by the amount the student receives in funding from other resources that exceeds the total budgeted expenses for the school year subject to federal regulations.

The following scholarships are awarded to eligible students regardless of financial need:

**ACADEMIC SCHOLARSHIPS** are awarded to incoming freshmen who graduate with a 3.50 or higher GPA from academies or secondary schools, are recommended by their faculty, and enroll at Southern College for a minimum of twelve semester hours.

For those incoming freshmen students who have a high school GPA of 3.85 or above and an ACT composite score of 28 or above, a high academic scholarship of \$6,500 over four years is available. Two thousand dollars will be awarded the first year at SC and \$1,500 for each of the following three years. The student must maintain an SC GPA of 3.50 and carry not less than 14 semester hours of class work each semester enrolled.

**LEADERSHIP SCHOLARSHIPS** are awarded to incoming freshmen who have served as S.A. President, S.A. Vice-President, S.A. Spiritual Vice-President, Senior Class President, Yearbook Editor, and School Paper Editor, provided they enroll at Southern College for a minimum of twelve semester hours.

**NATIONAL ACADEMIC RECOGNITION AWARDS** are awarded to finalists in the National Merit contest. Finalists receive tuition-free scholarship for four continuous years at Southern College. They must maintain an SC GPA of 3.50 and enroll each semester for not less than 15 semester hours.

**ACT SCHOLARSHIPS** — Incoming freshmen with a composite score of 26-30 are eligible for a \$700 award if they maintain a college GPA of 3.00 each semester of the first year they are enrolled at Southern College. Incoming freshmen with a composite score of 31-36 are eligible for an \$850 award if they maintain a college GPA of 3.25 each semester of the first year they are enrolled at Southern College. Students must enroll at Southern College for a minimum of twelve semester hours.

**SUMMER CAMP SCHOLARSHIPS** — Students participating in conference-sponsored summer camp programs will receive credit from Southern College for 50 percent of the net amount received to the student's statement upon enrollment of a minimum of 12 semester hours. Funds will not be matched for past due accounts for prior years.

**STUDENT MISSIONARY/TASK FORCE SCHOLARSHIPS** — Students who were approved by Southern College to serve as Student Missionaries or Task Force Workers may upon the completion of a year of service apply for a \$1,000 scholarship through the Chaplain's Office if they are enrolled at SC for a minimum of 12 hours.

**CHURCH AND/OR CONFERENCE MATCHING PLAN** — Southern College will participate in a matching plan, matching one-third of the total scholarship funds received from a church or conference. The student must be enrolled for a minimum of 12 hours. Funds will not be matched for past-due accounts for prior years and will not exceed \$1,000 per student per year. The participating church and/or conference must complete and sign the matching application form certifying that their appropriation came from local church funds, not from the student, his parents, or his relatives, and is not for wages or pay for services rendered by the student. These forms may be obtained from the Student Finance Office.

## Grants

**THE FEDERAL PELL GRANT PROGRAM** is a federal program which provides grant assistance directly to eligible first-degree undergraduate students. A student's eligibility for a Pell Grant is based on a congressionally-approved formula which considers family financial circumstances. Pell Grant recipients may receive funds on a yearly basis to a maximum of five years.

**FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT** — Limited funds are available to students with exceptional financial need.

**STATE STUDENT INCENTIVE GRANTS** — These grants are made possible from federal and state funds to the residents of Alaska, Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Jersey, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Vermont, Washington, and West Virginia. Students should check with their states' grant agencies for additional information.

## Loans

**FEDERAL PERKINS LOAN** (formerly National Direct Student Loan) — Under this program students can borrow money from the federal government through the school. Repayment and five percent interest begin nine months after a student graduates, leaves school, or drops below half-time enrollment.

**FEDERAL NURSING STUDENT LOANS** are available to nursing students only. Repayment and five percent interest begins nine months after a student graduates, leaves school, or drops below half-time enrollment.

**FEDERAL STAFFORD LOANS** (Formerly Guaranteed Student Loans) are available through lending agencies in each of the states. A student may borrow from a bank, savings and loan association, credit union, or other lender, and the state agency will guarantee the loan.

Category of Borrower	Annual Loan Limits	Aggregate Loan Limits
Freshman	\$2,625	
Sophomore	\$3,500	
Junior	\$5,500	
Senior	\$5,500	\$23,000

If you have a need-based Federal Stafford Loan, the federal government pays the interest on the loan while you're in school or in deferment. These types of loans are called "**subsidized**" Stafford Loans because the government pays the interest and therefore subsidizes or

supports these loans. If you have a **non-need-based** Stafford, you have an **"unsubsidized"** Federal Stafford Loan, and you'll be responsible for the interest during in-school and deferment periods. (The organization holding your loan may let the interest accumulate until you're out of school or until your deferment ends. Note, however, that this will increase the amount of your principal.)

If your loan was first disbursed on or after October 1, 1991 **and**, on the date you signed your **promissory note\*** you had no Federal Stafford Loan, Federal PLUS loan, Federal Supplemental Loans for Students loan, or **consolidation loan\*** outstanding (unpaid), your interest rate will be variable, but no higher than 9 percent. From October 1, 1992 through June 30, 1993, the interest rate for a Federal Stafford Loan is 6.94 percent. Variable interest rates are set each June. The organization holding your loan will notify you of later interest rate charges. If you're not in the category above, check with the organization that holds your loan for the interest rate.

Federal PLUS are for **parents** who want to help pay for their children's education; Federal Supplemental Loans for Students (SLS) are for **student** borrowers. Both loans provide additional funds for education expenses and, like Federal Stafford Loans, are made by a lender such as a bank, credit union, or savings and loan association.

Federal PLUS loans enable parents with good credit histories to borrow for each child who is enrolled at least **half-time\*** and is a dependent student. For PLUS loans first disbursed on or after July 1, 1993, the annual loan limit is the child's **cost of education\*** minus any estimated financial aid received.

You can get a Federal SLS if you're an independent undergraduate and you're enrolled at least **half-time**.

**Note:** Deferments do not apply to interest, although the lender may let the interest accumulate until the deferment ends.

For PLUS or SLS loans first disbursed on or after October 1, 1992, the interest rates will be variable, but not higher than 10 percent for PLUS and 11 percent for SLS. From October 1, 1992 through June 30, 1993, the interest rate for a PLUS or SLS is 7.36 percent. Variable interest rates are set each June. The organization that holds the loan will notify the borrower of later interest rate changes. Those who borrowed before October 1, 1992, should check with the organization holding the loan for the interest rate.

### Work

**FEDERAL COLLEGE WORK-STUDY PROGRAM** — Under the work-study program, the employer pays a small part of the student's wages, and the government pays the rest. Most work-study positions are on campus. Students can work part-time while they are in school;

they can work full time during the summer and other vacation periods. The basic pay rate is usually the current minimum wage. This may vary depending on the skill and experience needed for the job.

## OTHER GRANTS, LOANS, AND SCHOLARSHIPS

The following grants, loans, and scholarships are available to students meeting the above requirements or having exceptional academic achievements. Details concerning amounts and qualifications for recipients of these funds can be obtained from the Student Finance Office.

*Dorothy Ackerman Vocal Scholarship Endowment Fund*

*George Alden Nursing Scholarship* for nursing students from Massachusetts

*Frances Andrews Journalism Scholarship Fund*

*Appalachian Nursing Scholarship* for nursing students from the Appalachian Mountain region

*Berner Scholarship Endowment Fund* for Religion or Education Majors

*Birmingham First SDA Church Scholarship Fund*

*Colonel George J. Bogovich Physics Scholarship Endowment Fund*

*V. Robert Bottomley, M.D., Memorial Scholarship Endowment Fund*

*Theresa Brickman Scholarship* for office administration majors

*Burdick Scholarship* for religion, behavioral science or science majors

*Business Administration Scholarship* for business majors

*Caldwell Nursing Loan* for nursing students planning to serve the Chattanooga community

*Cartinhour Foundation Scholarship and Loan*

*Cashman-Offer Scholarship Fund*

*Merle Peabody Chapman Scholarship Fund*

*Chatlos Foundation Scholarship* for nursing students from Florida

*Drs. Tony Y.T. and Delma A.Q. Chen Scholarship Endowment Fund*

*Lucille Coppock Education Scholarship Endowment Fund*

*John Christensen Scholarship* for chemistry majors

*Penna S. S. Chong Memorial Scholarship* for nursing students (Preference for Far East resident students of Asiatic origin)

*Alvin Christensen Memorial Loan* for junior or senior biology or natural science majors

*Otto Christensen Loan* for potential Bible instructors or theology majors

*Class of 1951 Scholarship Endowment Fund*

- Class of 1969 Loan* for juniors and seniors  
*Cecil R. Coffey Journalism Scholarship Endowment Fund* for  
Journalism and Communication Majors  
*Nanette McDonald Coggin Scholarship Endowment Fund*  
*Florence Cloutier Memorial Scholarship Endowment Fund*  
*Communication Scholarship*  
*Frankie Collins Loan* for ministerial students  
*Conger Memorial Scholarship* for education majors or minors  
*Edythe Stephenson Cothren Vocal Music Scholarship* for junior/  
senior voice majors or minors  
*Wilfred and Kathryn Cowdrick Scholarship Fund*  
*K. R. Davis Scholarship Endowment* for sophomore through  
senior Student Association officers  
*George B. and Olivia Dean Scholarship* for education majors  
*Duge Family Scholarship Endowment Fund*  
*Paul Fisher Scholarship*  
*Harry H. Goggans Scholarship*  
*K. W. Grader Nursing Scholarship* for nursing students from Florida  
*Daina Griffin Nursing Scholarship*  
*Edgar O. Grundset Scholarship Fund*  
*Haynes Family Scholarship Endowment Fund* for Secondary  
Education or Pre-Pharmacy Majors  
*Hearst Foundation Scholarship* for nursing students from the  
Appalachian region  
*Henson Mathematics Scholarship* for math majors  
*Dr. James W. Hickman Scholarship Fund*  
*D. W. Hunter Scholarship* for theology students  
*Louise Hurt Memorial Scholarship*  
*William Iles Scholarship*  
*Johnston Nursing Scholarship* for nursing students from  
North Carolina  
*Jonathan Lincoln Art Scholarship* for art majors or minors  
*Irad C. Levering Loan* for elementary and secondary education  
majors  
*Lions Club Nursing Scholarship Fund*  
*Luddington Memorial Scholarship*  
*Nellie Henderson Maddox Scholarship* for music major or minor  
with keyboard emphasis  
*Manor Care Scholarship* for office administration majors  
*McClarty Family Scholarship Fund* for Music or English majors  
*McClusky Scholarship Fund* for biology majors  
*McKee Latin American Scholarship*



- Ruth McKee Memorial Scholarship Fund*  
*Marvin Midkiff Scholarship Endowment Fund*  
*Mitzelfelt Band Scholarship* for members of the band  
*Dorothy and Harold Moody Scholarship* for junior and senior history majors  
*Carolyn Niemeyer Scholarship* for nursing majors  
*Nursing Magazine Scholarship* for nursing majors  
*Nutrix-Primus Nursing Scholarship* for nursing majors  
*Odom Scholarship Fund* for religion, theology, or education majors  
*Eva Pangborn Memorial Scholarship*  
*Donald R. and Betty Phillips Scholarship Endowment Fund*  
*Stephen C. and E. Marie Poch Scholarship Fund*  
*John Hunter Rauch and Lilian Hanson Rauch Scholarship Endowment Fund* for majors in Health Care areas  
*Reile-McAlexander Memorial Loan* for nursing students  
*A. F. Ruf Family Scholarship* for English and history majors  
*So-Ju-Conian Anonymous Birthday Scholarship* for descendants of Southern Junior College students  
*Southern College Symphony Scholarship Fund*  
*Linda Beardsley Stephens Memorial Loan* for nursing students  
*Daniel W. Stephenson Graphic Arts Scholarship*  
*Stover Scholarship Fund*  
*Sudduth Memorial Scholarship* for potential teachers  
*Ambrose Suhrie Scholarship* for elementary education majors  
*Anton Julius Swenson Loan*  
*Tait-Curry Family Scholarship* for nursing, business, or chemistry majors  
*Mollie Tanzer Scholarship*  
*Dennis and Joan Taylor Scholarship Fund* for Physics majors  
*William Taylor Scholarship* for students from Southeast Asia College  
*John C. and Sue Dale Thompson Scholarship*  
*Sanford and Martha Ulmer Scholarship*  
*Wayne VandeVere Scholarship* for business and accounting majors  
*Mattie Vroman Memorial Revolving Loan Fund*  
*W.K.B.G. Families Scholarship Endowment* for student missionaries  
*Everett Watrous Scholarship*  
*E. G. White Ministerial Scholarship*  
*Drs. John B. and Alice L. Wong Scholarship Fund*  
*Scott Jeffery Yankelevitz Memorial Scholarship*  
*Young Alumni Presidential Consultants Scholarship Endowment Fund*

# STUDENT LIFE AND SERVICES

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A college is not only classroom instruction, but also a mode of association. The effectiveness of the college program is enhanced if students develop their interests and meet their needs through participation in the nonacademic activities provided. Students are encouraged to take advantage of the facilities and opportunities planned for their cultural, social, and spiritual growth.

## RESIDENCE HALL LIVING

Living in a college residence hall with its daily "give and take" prepares the student to meet life with equanimity, teaches respect for the rights and opinions of others, and offers first-hand experience in adjusting to a social group.

To assure students this beneficial experience, the college requires those students who take more than three semester hours of classwork and who are unmarried, under 23 years of age, and not living with their parents or other approved relatives in the vicinity, to reside in one of the residence halls.

## REHABILITATION ACT (1973) Section 504: Services for Students with Special Needs

Southern College is dedicated to the elimination of architectural and prejudicial barriers which prevent any qualified person from attending. All applications are welcomed. Students who anticipate the need for special services are encouraged to arrange with the Admissions Office for a visit to the campus at which time the applicant will receive information concerning all features of campus life and can share with the college officials any information pertinent to personal needs.

## DINING

For the promotion of student health and enjoyment, Southern College provides a complete vegetarian cafeteria service, organized to serve the students' needs. The spacious dining hall is an inviting center of social and cultural life at the college, and service by the cafeteria staff is available for the many student and faculty social functions. Auxiliary dining rooms are available for meetings of various student or faculty organizations. Two vegetarian fast-food shops are also operated on the campus by the Food Service Department. K.R.'s Place is conveniently located in the Student Center and the Campus Kitchen is at nearby Fleming Plaza.

## CHAPLAIN'S OFFICE

Any student of Southern College has the opportunity to enrich his/her personal relationship with Jesus through Campus Ministries activities. Through the programs coordinated from the Chaplain's Office, students can engage in a wide variety of spiritual activities both on campus and off campus.

C.A.R.E. ministries is the acronym for Collegiate Adventist Reaching Everyone. Student leaders working the campus chaplain direct outreach activities such as Campus Ministries, CABL (Collegiate Adventist for Better Living), Destiny Drama Company, Collegiate Missions, and numerous religious programs.

Southern College enjoys a reputation of having a strong commitment to mission service. There are opportunities for short-term mission projects as well as traditional student missionary positions or volunteer taskforce positions. The "Call Book" which is published by the General Conference Youth Ministries Department is available in the Chaplain's Office located in the Student Center on the third floor of Wright Hall. Students interested in any mission or taskforce position may work through the Chaplain's Office for information and placement in mission positions.

The campus chaplain serves as a pastor for the college campus. The chaplain is available for spiritual counseling, personal and relationship concerns, or any situation in which students desire personal and professional counseling. It is the desire of the Chaplain's Office to provide a safe, confidential setting for students to discuss personal issues.

Since many college students choose a life partner while here at the college, the Chaplain's Office provides various pre-marital inventories and counseling programs to aid in the establishment of healthy Christian relationships.

## GUIDANCE AND COUNSELING SERVICE

During registration each student is assigned an academic adviser who will assist in program planning and give advice and guidance on academic questions throughout the school year. Students may also seek counsel concerning academic or personal problems from any member of the faculty.

Students with personal problems who wish assistance from a professional counselor should consult the Vice President for Student Services or Director of Testing and Counseling. Personnel trained in psychology and counseling are available to those with serious social and personal problems.

The testing service works in close cooperation with the counseling service in providing guidance information to both students and

counselors. Students are urged to take advantage of the testing service as a means of obtaining information useful in choosing a profession or occupation.

### HEALTH SERVICE

The Health Service is administered by a nurse director in cooperation with a college physician and the Vice President for Student Services. The director uses the physician's standing orders and maintains regular office hours. The college physician holds regular clinic hours each weekday morning.

An infirmary is provided and staffed in the evenings and at night on an on-call basis by live-in registered nurses who are continuing for their B.S. degrees.

The Health Service is available to all dormitory occupants and all students taking eight or more hours (three hours in the summer). The infirmary is available to all dormitory occupants. There is no charge for seeing a nurse or using the infirmary. There is a minimal charge to cover costs of equipment used in some treatments. Medications given are charged by the pharmacy.

All students taking eight hours or more must purchase the Student Accident and Sickness Insurance Plan or show proof of adequate coverage by another policy. Spouses of students and those taking less than eight hours may also purchase the plan. A policy brochure describing complete benefits and terms is given to each student at registration. In case of major illness, students may be referred to off-campus hospital facilities.

### ORIENTATION PROGRAM

Southern College has a personal interest in the success of the student desiring a college education. There is much that the student must do to get acquainted with the academic, social, and religious life of the college by perusing this bulletin and the *Southern College Student Handbook*. Instruction and counsel are given which will help the student better understand the college program and what is expected of him/her as a citizen of the college community.

Orientation for new freshman students is held prior to registration for the fall term. It includes examinations and instruction helpful in course planning. The student is introduced to the facilities, purposes, and functions of the college. Social occasions are also provided when students may meet faculty members and fellow students. All new freshman students are required to attend the orientation program.

## STUDENT EMPLOYMENT SERVICE

Southern College encourages every student enrolled to organize his/her educational program on the study-work plan. It is a policy of the college to give students first priority for jobs. If a student wants to work, is physically and emotionally able to work, and has arranged his class schedule to accommodate a reasonable work schedule, he should be able to obtain employment on campus. Students seeking employment should contact the Personnel/Student Labor Office.

## SENIOR PLACEMENT SERVICE

One of the personnel services of the college is that of assisting graduates in securing appointments for service. The Placement Service distributes information concerning senior students to a wide list of prospective employers. The offices of Student Services and Testing and Counseling serve as the liaison sources in bringing graduates and employers together.

## STUDENT ASSOCIATION

Every student at Southern College who is taking eight or more semester hours of classwork is a member of the Student Association with voting privileges in the election of officers. Opportunities for leadership development and for cooperation in achieving the objectives of Southern College are afforded by the Association. The Association assists the college administration and faculty in the implementation of policies and assumes responsibility in giving direction to campus activities entrusted to it.

The Association's activities are coordinated and communicated through the Student Senate and Cabinet and their several committees. The activities include the publishing of the weekly newspaper, *Southern Accent*; the yearbook, *Southern Memories*; the weekly announcement sheet, *Campus Chatter*; and the student-faculty pictorial directory, *Joker*.

The activities and responsibilities of the officers and the detailed organization of the Student Association are outlined in the *Student Association Constitution and Bylaws*.

## CAMPUS ORGANIZATIONS

Aside from the Student Association and its committees, more than thirty campus organizations provide opportunities for enrichment, leadership training, and enjoyment. They include church-related organizations—Campus Ministries, Student Ministerial Association, Collegiate Adventists for Better Living, and the Literature Evangelists Club; clubs related to academic interests sponsored by the departments;

social clubs—Married Couples' Forum, Sigma Theta Chi (women's residence hall), and Upsilon Delta Phi (men's residence hall); and special interest or hobby clubs.

Students may join any of the clubs but must have a cumulative grade point average of 2.25 or a grade point average of 2.50 for the previous semester to hold any elected office.

### CONCERT-LECTURE SERIES

Each year a concert-lecture series featuring significant artists, lecturers, and film travelogues is provided for students, generally in connection with the weekly assembly program. The cost of admission for students is included in the tuition.

### STANDARDS OF CONDUCT

In harmony with the objectives of the college, high standards of behavior are maintained to encourage the development of genuine Christian character. Mature Christian students of sound spiritual and social integrity appreciate standards that elevate and ennoble. Admission to Southern College is a privilege that requires the acceptance of and compliance with published and announced regulations. Only those whose principles and interests are in harmony with the ideals of the college and who willingly subscribe to the social program as ordered are welcomed. It therefore follows that since students at Southern College receive an education subsidized by the Seventh-day Adventist Church, those who engage in activities designed to be detrimental to the church on or off campus will not be knowingly accepted or retained.

A student who is out of harmony with the social policies of the college, who is uncooperative, and whose attitude gives evidence of an unresponsive nature may be advised to withdraw without specific charge. The use of tobacco or alcoholic beverages, the improper use of drugs, movie theater attendance, card playing, dancing, profane or vulgar language, hazing, and improper associations are to be avoided.

Each student is expected to acquaint himself with the standards of conduct published in the *Southern College Student Handbook*. The handbook includes levels of social discipline and the appeal route. A copy may be obtained from the office of the Vice President for Student Services. Interim announcements of policies adopted by the faculty are of equal force with those listed in official publications.

### ASSEMBLY AND WORSHIP SERVICES

In private parochial education it has been shown that elimination of residence hall worships and all school-wide convocations is the first

step toward the separation of the school from its sponsoring church. Convocation exercises in the residence halls and for the entire student body serve educational and religious purposes. They also provide an element of unity which is one of the most desirable features of private education such as is found at Southern College. The religious emphasis weeks and the weekend church services assist in the spiritual growth of the students. Students are required to attend these services regularly. Failure to do so will jeopardize the student's current status and readmission privileges.

The college offers programs of study leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, Bachelor of Social Work, Associate of Arts, Associate of Science, and Associate of Technology degrees, various professional curricula, and a two-year occupational certificate program. Each year, students are advised to plan their course work. Students should consult their advisor with the programs of study and graduation requirements outlined in this CATALOG. Freshman students may consult faculty members during the summer months before the beginning of the fall semester. Students planning to teach should consult the department of education and psychology as an established teacher-education course is a part of their program in order to qualify for educational and state certification.

**GENERAL DEGREE REQUIREMENTS**

- ◆ A minimum of 124 semester hours with a resident and cumulative grade point average of 2.00 (C) or above. Students earning the Bachelor of Music degree will take 132 semester hours.
- ◆ A minimum of 40 hours of upper division credit, to include at least 16 upper division hours in the major for a B.A. degree and at least 18 upper division hours in the major for all other degrees. The minimum grade point average for a B.A. degree is 2.25. The minimum grade point average for other degrees is 2.2.
- ◆ Satisfactory make-up of students' behavior. (See page 11).

# ACADEMIC POLICIES

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## PLANNING A COURSE OF STUDY

When planning for college, students should consider in detail the course of study which will lead to their desired professions or occupation. If a firm decision about the choice of life work has not been made before entering college, students may take a general program of study exploring several fields of knowledge during the freshman year. This approach need not result in loss of credits if carefully planned.

The college offers programs of study leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, Bachelor of Social Work, Associate of Arts, Associate of Science, and Associate of Technology degrees, various preprofessional curricula, and a one-year occupational certificate program.

When planning their course work, students should acquaint themselves with the programs of study and graduation requirements outlined in this CATALOG. Freshman students may consult faculty members during the summer months before the beginning of the fall term. Students planning to teach should consult the Department of Education and Psychology so as to include teacher education courses as a part of their program in order to qualify for denominational and state certification.

Degree candidates are responsible for satisfying all degree requirements. Students may choose to meet the requirements of any one catalog in effect during the period of residency. If students discontinue their education for a period of twelve months or more, they must qualify according to the catalog in force subsequent to their return.

## GENERAL DEGREE REQUIREMENTS:

### Baccalaureate Degree

The general degree requirements for a baccalaureate degree are as follows:

- ◆ Satisfactory make-up of admissions deficiencies. (See page 11).
- ◆ A minimum of 124 semester hours with a resident and cumulative grade point average of 2.00 (C) or above.\* Students earning the Bachelor of Music degree will take 132 semester hours.
- ◆ A minimum of 40 hours of upper division credit, to include at least 14 upper division hours in the major for a B.A. degree and at least 18 upper division hours in the major for all other degrees.



- ◆ Completion of a major and minor (two majors accepted) for a B.A. degree or completion of a major for other degrees with a cumulative grade point average of 2.25 in the major,\* completion of the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than a "C-" will not be applied on a major or minor. Grades of "C" or better are required for the Nursing major and grades of "C-" or better are required for Nursing cognate courses.
- ◆ More than one major may be earned provided all courses required for each major and its cognates are completed. Each major must include a minimum of 20 semester hours that do not overlap with any other major or minor.  
More than one minor may be earned provided all courses required for each minor are completed. Each minor must include a minimum of 12 semester hours that do not overlap with any other major or minor.
- ◆ Completion of an examination as required by the department.
- ◆ Students wishing to obtain a second degree will need to complete, beyond the 124 minimum hours required, a minimum of 30 hours, including 16 hours upper division, and a new major.
- ◆ Completion of General Education requirements as spelled out in the "General Education Requirements" section of this CATALOG.

### GENERAL DEGREE REQUIREMENTS: Associate Degree

- ◆ A minimum of 64 semester hours and a resident and cumulative grade point average of 2.00 (C) or above. Nursing majors need 69 semester hours.
- ◆ Completion of a major, the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than "C-" will not be applied on a major.

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\*For educational certification, the minimum grade point average (GPA) of 2.50 must be met both in education and in the field of certification. In elementary education, a GPA of 2.50 is required in the major and in required non-major subjects. The music major requires a GPA of 2.25 both in applied music and other music courses. The nursing major requires a GPA of 2.25 in cognate courses as well as in the major. The medical technology major requires minimum grades of C- and a minimum average of 2.25 in the major and cognates.

- ◆ Students who have completed one associate degree and who wish to obtain another associate degree may do so upon completion of the curriculum prescribed for the second degree.

The work completed for the second degree must include at least 24 hours in residence over and above the number of hours earned for the first degree. If the second associate degree is earned subsequent to the first associate degree, the requirements for the second degree will be governed by the provisions of the CATALOG in effect at the time the student re-enters the college for work toward the second degree.

- ◆ Students who wish to obtain an associate degree at the time they receive a baccalaureate degree may do so if the degrees are in different fields. If requirements for an associate and a baccalaureate degree in the same field are completed at the same time, only the higher degree will be conferred.

### ONE-YEAR CERTIFICATE REQUIREMENTS

- ◆ A minimum of 32 semester hours which meet the requirements of a specific one-year program.
- ◆ A resident and cumulative grade point average of 2.00 (C) or above. Grades in the technical area below "C-" will not be accepted.

### GENERAL REQUIREMENTS: Minor

- ◆ A minimum of eighteen semester hours of which six must be upper division credit.

### CLASS STANDING

Freshmen . . . . .	0-23 semester hours
Sophomores . . . . .	24-54 semester hours
Juniors . . . . .	55-93 semester hours
Seniors . . . . .	94 semester hours

Eligibility for class office requires a grade point average of 2.25 and a good citizenship record.

### GRADUATION REQUIREMENTS

*Degree Candidacy:* A student may become a degree candidate when s/he enters upon the school term during which it will be possible to complete all requirements for graduation. Formal application for graduation must be made during the fall registration of the senior year.

*Dates of Graduation:* The date of graduation will be (a) the date of commencement for those graduating at the close of the school year; (b) the last day of the semester for those finishing first semester; and (c) for others, the last day of the month in which graduation requirements are met. A commencement service occurs at the end of the second semester of each school year.

*Transcripts:* Before a student will be allowed to graduate, transcripts of all correspondence and transfer credits must be received at the Office of Records.

*Participation in Graduation Exercises:* Students are allowed to participate in commencement exercises only if they have completed all the courses they need for graduation or if they submit approved plan for completing their courses during the summer.

*Prospective Summer Graduates:* A \$200 fee is charged to students who are listed on the May graduation program as prospective summer graduates. This fee is refundable only if the degree requirements are completed by August 31. Criteria for students to be listed on the graduation program as prospective summer graduates are as follows:

1. They must lack no more than six hours of regular coursework or eight hours of internship.
2. They must submit a plan showing how they can complete the hours they lack in the summer.
3. They must have all Incomplete grades made up, challenge examinations completed, etc. at the same time as the May graduates—three to four weeks prior to commencement.
4. They must meet the minimum GPA standards at Southern College, overall, and in the major as of midterm of the second semester.

*Deferred Graduation:* Students ordinarily are allowed to graduate under the requirements of the CATALOG of the year in which they enter the college, or of any subsequent year in which they are in attendance, provided they do not discontinue attendance for twelve months or more. Students who are studying for a baccalaureate degree and fail to graduate within six calendar years (four years for an associate degree), must plan to conform to the current CATALOG.

## RESIDENCE REQUIREMENTS

*Baccalaureate Degree:* Thirty of the thirty-six semester hours completed immediately preceding the conferment of the baccalaureate degree must be taken in residency. The total hours taken in residence must include fifteen in upper division, of which nine must be in the major and three in the minor fields.

*Associate Degree:* Thirty of the thirty-six semester hours completed immediately preceding the conferment of the associate degree must be taken in residence. The total hours taken in residence must include fifteen in the major field of study and three in the minor if a minor is taken.

*Certificate Programs:* Eighteen semester hours of credit must be completed in residence immediately preceding the conferment of a one-year certificate.

*Transfer Credit:* Prior arrangements must be made with the Records Office to take courses for transfer credit at another college or university during any session the student is simultaneously enrolled at Southern College and during any summer after initial enrollment. See department sections of the CATALOG for classes which must be taken in residence.

### PREREQUISITE FOR TAKING UPPER DIVISION CLASSES

Students must complete forty semester hours of 100 and 200 level courses (lower division) before enrolling in a 300 or 400 level course (upper division). **The English Composition and mathematics requirements in area A, Basic Academic Skills, of General Education must be met before enrollment in upper division classes.**

### WRITING ACROSS THE CURRICULUM

The Writing Across the Curriculum program at Southern College is one of the longest-running programs of its kind in the nation. The goal of the program is to assist students in developing writing skills suitable to various disciplines. Such skills will also make students more competitive in the job market. Thus, candidates for the bachelor's degree must complete three writing-emphasis classes as outlined in the general education requirements. These classes are carefully tailored to emphasize personal growth in writing skills through both spontaneous and planned writing exercises. Students should also expect writing requirements in courses other than those designated as writing-emphasis courses.

### GENERAL EDUCATION

While recognizing the validity of many different general education programs, the faculty of Southern College have designed the following sequence that provides development of academic skills and opportunities for self-fulfillment, and conveys basic values of both the Seventh-day Adventist Church and western civilization. Students may exercise considerable latitude when selecting courses to comply with General Education requirements. A comprehensive general education test is required of all four-year seniors.

## GENERAL EDUCATION OBJECTIVES AND REQUIREMENTS

Semester Hours  
Assoc. Bachelor's

### AREA A. BASIC ACADEMIC SKILLS

A graduate of Southern College can use the skills of reading, writing, and mathematics.

Underlying all general education requirements are the basic academic skills of English and mathematics. It is important for a graduate to be able to discern an author's organization, arguments, and supports, and to write coherently, fluently, and grammatically. Graduates need numeric and symbolic computation skills to function successfully in our scientific and technological society.

**All English Composition and mathematics requirements in Area A must be completed before upper division work is undertaken.**

**Upper division transfer students may take Area A requirements concurrently with upper division classes.**

1. English 6-9    6-9

*ENGL 101 and 102 are required for both the associate and the bachelor's degrees.*

*Students with an Enhanced ACT English score below 17 must take ENGL 099 before enrolling in ENGL 101.*

2. Mathematics 0-3    0-3

*Students with a Mathematics ACT score below 22 must take one mathematics course (100 level or above). MATH 080 is required of all students who meet none of the following criteria: 1) ACT Mathematics score of 16 or above, 2) ACT Mathematics Elementary Algebra subscore of 8 or above, 3) Completion of high school Algebra II with a grade of C or better.*

3. Candidates for the bachelor's degree must complete three writing-emphasis classes. These classes are identified by a "(W)" following the course name, [e.g., *History of the South (W)*] in the departmental listings. One such class must be in the student's major field and one must be outside the major field. The third may be chosen from any area.

### AREA B. RELIGION

6    12

A graduate of Southern College has a knowledge of the Bible and a sense of Christian community based on the teachings, beliefs, and history of the Seventh-day Adventist Church.

A correct understanding of the human condition results from a knowledge of the Bible as God's word, a commitment that springs from that truth, and a system of values derived from such knowledge and insight.

**AREA B. RELIGION, cont.**

*Transfer students must take 3 hours for each year or part thereof in attendance at an SDA college with a minimum of 6 hours. Bachelor's degree students must take at least three hours from each of the sub-areas and include one upper-division class.*

1. *Biblical Studies*

All RELB courses.

2. *Religion*

All RELT courses. (Only one of RELT 317, 318, 424, will apply.)

**AREA C. HISTORY, POLITICAL AND ECONOMIC SYSTEMS**

A graduate of Southern College has knowledge of history and the skill to analyze political and economic systems. It is essential that one have an historical perspective in a society that allows its members a voice in shaping its political, social, and economic institutions.

*Students with less than one secondary school credit for World History must include one of the following: HIST 174, 175, 364, 365, 374, 375, 386 or 389.*

1. *History*

3 6

All HIST courses except 490.

2. *Political and Economic Systems*

3

All PLSC courses; GEOG 306; ECON 213, 224, 225. [Students studying for licensure in elementary education and Modern Languages may take GEOG 204 for G-2 credit.]

**AREA D. LANGUAGE, LITERATURE, FINE ARTS**

3 9

A graduate of Southern College can recognize the impact of arts and humanities on life and integrate such knowledge into personal experience.

Language, literature, speech, and the fine arts convey ideas, values, and emotions. An acquaintance with these modes of communication enhances the ability to express oneself and fosters an appreciation of the cultural heritage of world civilization and the complexities of human existence.

*Bachelor's degree students must include at least 2 hours in each of 3 sub-areas. Students entering Southern College who have less than two secondary school credits of foreign language and who are pursuing a Bachelor of Arts degree must complete the elementary level of a foreign language.*

Semester Hours  
Assoc. Bachelor's**AREA D. LANGUAGE, LITERATURE,  
FINE ARTS**

3 9

**1. Foreign Language**

FREN 101-102, 207-208; GRMN 101-102,  
207-208; SPAN 101-102, 207-208;  
RELL 271-272, 311-312, 471-472.

**2. Literature**

All literature courses offered by the English  
Department and ENGL 326.

**3. Music and Art Appreciation**

HMNT 205; MUHL 115, 320, 321, 322, 323;  
MUCH 215; ART 218/318, 344, 345.

**4. Speech**

SPCH 135, 136, 236.

**AREA E. NATURAL SCIENCE**

3-6 6-9

A graduate of Southern College comprehends the basic  
concepts of science and can apply the scientific method  
to problem solving.

A study of the sciences develops an inquiring attitude  
toward one's environment. It provides individuals with  
empirical and rational methods of inquiry and an awareness  
of both the potential and the limitations of pure and applied  
science in solving problems.

*Bachelor's degree students must take at least 3  
hours from each of 2 sub-areas. Only one of the  
following may apply: BIOL 424, PHYS 317, 318.  
Students who have less than two secondary school  
units in science, and a Science Reasoning ACT  
standard score less than 14, must take 3 hours of  
science above the usual requirements; e.g. associate  
degree students must take 6 hours and bachelor's  
degree students must take 9 hours.*

*Southern Scholars must take a sequence of two  
classes from the same department. See the "Honors  
Studies Sequence" section of the CATALOG for  
clarification.*

**1. Biology**

BIOL 101-102, 103, 104, 151-152, 225, 226,  
314, 424.

**2. Chemistry**

CHEM 103, 111-112, 113-114, 151-152.

**3. Physics**

PHYS 137, 155, 211-212, 213-214, 317, 318.

**4. Earth Science**

ERSC 105.

**AREA F. BEHAVIORAL, FAMILY,  
HEALTH SCIENCES**

2 5

A graduate of Southern College will have a knowledge of and be able to apply the dynamics of personal relationships, social interaction, and healthful living toward effective service.

The basic social units significantly shape people's lives, and a knowledge of their workings is necessary to understand ourselves and others.

*Bachelor's degree students must include at least 2 hours in each of 2 sub-areas.*

**1. Behavioral Science**

PSYC 124, 128, 217, 224, 233, 315, 349,  
367, 377, 415, 465; SOCW 211, 212, 233,  
375, 424, 465, 296/496; EDUC 217, 427;  
all SOCI courses except 201, 223, 365.

**2. Family Science**

BUAD 128; SOCI 201, 223, 233, 365;  
SOCW 233; PSYC 233.

**3. Health Science**

HLED 173, 203; FDNT 125; NRSB 265.

**AREA G. ACTIVITY SKILLS**

3 6

A graduate of Southern College will understand how to live a balanced life by following the principles of wellness and using leisure time wisely. The Seventh-day Adventist philosophy stresses the balanced development of the whole person. Toward this goal, education in the use of leisure time is important, particularly in creative, recreational, and practical skills. Associate degree students may take a maximum of 2 hours in any sub-area; bachelor's degree students may take a maximum of 3 hours in any sub-area. All students must take at least 1 hour from G-3.

**1. Creative Skills**

All MUPF courses; ART 104-105, 109, 110,  
235; ENGL 314; JOUR 225, 315.

**2. Practical Skills**

ACCT 103, 221-222; BUAD 126; CPTR 104,  
105, 106, 107, 116, 120, 131, 132, 217;  
CPTC 245/345, 249/349; EDUC 250;  
ENGL 313; ENGR 149, 150; JOUR 103, 205;  
LIBR 125; OFAD 105, 115, 214, 218, 225,  
228, 245/345; TECH 145, 149, 154, 164,  
174, 223, 264/364.

**3. Recreational Skills**

All PEAC courses. Optional pass/fail grading is available for these courses.



## SOUTHERN SCHOLARS (Honors Program)

The honors program is designed for students who bring to their baccalaureate studies a high degree of motivation and intellectual curiosity. Special projects, interdisciplinary studies, and designated honors courses provide a challenging and intellectually stimulating educational experience. Degrees of depth and breadth are attained in this experience beyond those normally attained in regular baccalaureate studies.

The program is administered by an Honors Committee. This committee admits students to the program and discontinues honors status of those who fail to maintain minimum program standards. Its members also advise individual Southern Scholars and continually monitor their progress.

Eligible students will be invited to become Southern Scholars during registration. Freshmen are eligible if they have a high school GPA of 3.70 or higher. Other students must have completed at least 31 and at most 62 semester hours with a cumulative GPA of 3.50 or higher.

To continue as Southern Scholars, students must complete a minimum of twelve credits each semester and thirty-one credits each calendar year. They must also enroll in appropriate honors sequence courses, receive a B (3.00) average or higher in the honors sequence courses and maintain a minimum cumulative GPA of 3.50. All honors students are expected to graduate within a four-year period unless extenuating circumstances justify an extension by the honors committee.

Ordinarily, all courses of the honors sequence must be taken in residence. Limited exceptions may be made by the honors committee in the case of transfer students. Students already enrolled at Southern College who wish to take honors sequence classes at another institution must secure prior approval from the honors committee.

After completing one year in the honors program, Southern Scholars may receive a waiver for the cost of auditing one class each semester that they remain in the program. Upon successful completion of the program students will receive a tuition refund equivalent to four three-hour classes. The "per hour" rate for a 16-hour class load will be the basis for calculating the refund. Southern Scholars also receive a 100 percent tuition waiver for Honors Seminar, HMNT 451, 452, calculated according to the tuition waiver policy explained on pages 24 and 25.

## HONORS STUDIES SEQUENCE

### A. General Education

Honors students must meet regular general education requirements with the following stipulations:

### HONORS STUDIES SEQUENCE, cont.

1. Area B-2. One of the following courses must be selected: RELT 317, 318, 424, or 467.
  2. Area D-1. Foreign language competency must be attained at the intermediate level.
  3. Area D-2. ENGL 445 must be selected.
  4. Area D-3. HMNT 205 must be selected.
  5. Area E. MATH 181 or MATH 215 and one of the following science sequences must be selected: BIOL 151-152; CHEM 151-152; PHYS 211-212 with PHYS 213-214.
- B. Honors Seminar  
HMNT 451, 452, a sequence of eight seminar sessions, one each month, September through April. Taken during the junior or senior year.
- C. Project (2-3 hours, Directed Study)  
A significant interdisciplinary project demonstrating an understanding of the relationship between the student's major field and some other discipline. Directed study research, writing, special performance, appropriate to the major in question. The honors committee expects the project to be of sufficiently high quality to justify public presentation. The project must be approved by the honors committee in consultation with the student and his supervising professor.

### STUDENT MISSION/TASK FORCE CREDIT

Students may earn twelve hours of elective credit while participating in the Student Mission/Task Force programs. Details are available in the office of the College Chaplain. Students who wish to serve as student missionaries or task force workers must plan their programs a year in advance to fulfill necessary prerequisites.

### GRADUATION WITH HONORS

Students graduating with a cumulative GPA of 3.50 or above will have the degree conferred as follows: 3.50-3.74, *cum laude*; 3.75-3.89, *magna cum laude*; 3.90-4.00, *summa cum laude*. The appropriate designations will appear on the diploma. Students completing the honors program will, in addition to the above designation, be graduated as Southern Scholars.

### HONOR ROLL/DEAN'S LIST

At the conclusion of each semester of the school year, students who have carried a minimum of 12 semester hours and who have attained the following grade point averages will be included in the honors group indicated:

**HONOR ROLL/DEAN'S LIST, cont.**

3.25 Honor Roll

3.50 Dean's List

3.75 Distinguished Dean's List

**MAJOR AND MINOR REQUIREMENTS**

Southern College offers 37 majors and 29 minors for students wishing to qualify for a baccalaureate degree. Each major consists of thirty hours or more in the chosen field of specialization of which a minimum of fourteen for a Bachelor of Arts degree and eighteen for all other bachelor's degrees must be upper division credit. The total semester hours required for each major for the Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, and Bachelor of Social Work degrees varies with the field of specialization chosen.

All minors consist of at least eighteen semester hours. Six hours of a minor must be upper division credit.

The specific requirements for majors and minors are given under the respective disciplines in the section "Courses of Study."

**DEGREES AND CURRICULA**

**The Bachelor of Arts** degree consists of four years of course work that places a student's major field of study in the context of a liberal arts education. To encourage a wide range of studies, a minor is required. A foreign language component is required.

**The Bachelor of Science** degree consists of four years of course work that places the student's major field of study in the context of a liberal arts education. The degree permits somewhat greater concentration in the field of study. No minor or foreign language study is required except as specified for certain majors.

**The Bachelor of Business Administration** degree is a professional degree consisting of a four-year program with concentrations available in various fields of business. Requirements for this degree are outlined in the Business and Office Administration Department section.

**The Bachelor of Music** degree is a professional degree consisting of four years of course work designed to meet the needs of students wishing to receive teaching credentials. Requirements for this degree are outlined in the Music Department section.

**The Bachelor of Social Work** degree is a professional degree consisting of a four-year program of courses designed to meet the needs of students wishing to go into the social work profession. Requirements for this degree are outlined in the Behavioral Science Department section.

The Associate of Arts degrees is a two-year program designed to meet the needs of students who wish to pursue a short general studies program.

**The Associate of Science degree** is a two-year program designed to meet the needs of students who wish to pursue a short occupational or pre-professional program.

**The One-Year Certificate** is available for students desiring training in Auto Body Repair. Requirements for the certificate are outlined in the Industrial Technology Department section.

**Pre-Professional Curricula** are programs designed to prepare students to enter professional schools. In some cases pre-professional curricula will lead to an associate degree.

**CURRICULUM CHART**

<u>Department</u>	<u>Degree</u>	<u>Major</u>	<u>Minor</u>
<b>Allied Health</b>	BS	Medical Technology	
	AS	Pre-Cytotechnology	
	AS	Pre-Dental Hygiene	
	AS	Pre-Nutrition and Dietetics	
	AS	Pre-Occupational Therapy	
	AS	Pre-Physician Assistant	
	AS	Pre-Physical Therapy	
	AS	Pre-Speech Language Pathology & Audiology Pre-Surgeon's Assistant	
<b>Art</b>			<b>Art</b>
<b>Behavioral Science</b>	BS	Beh Sci-Family Studies	Behav Sci
	BSW	Social Work	Sociology
<b>Biology</b>	BA	*Biology	Biology
	BS	*Biology	
<b>Business &amp; Office Administration</b>	BBA	Accounting	
	AS	Accounting	
	BS	Business Admin	Business Admin
	BBA	Computer Info Systems	
	BS	Long-Term Health Care	
	BBA	Management	
	BBA	Marketing	
	BS	*Office Admin	Office Admin
AS	Office Admin		
AS	Pre-Health Info Admin		
<b>Chemistry</b>	BA	*Chemistry	Chemistry
	BS	*Chemistry	
<b>Computer Science &amp; Technology</b>	BBA	Computer Info Systems	
	BA	Computer Science	Computer Science
	BS	Computer Science	
	AS	Architectural Studies	
	AS	Computer Applications	
	AS	Computer Science	

<b>Education &amp; Psychology</b>	BA	Psychology	Education
	BA	Psychology (Elem Ed K-8)	Psychology
	BS	Soc/Lang Arts (Elem Ed 1-8)	
	BS	Soc/Natural Science (Elem Ed 1-8)	
		Secondary Teaching—see *asterisked majors	
<b>Engineering Studies</b>	AS	Engineering Studies	
<b>English</b>	BA	*English	English
<b>General Studies</b>		AA	General Studies
	AS	General Studies	
<b>Health, PE, &amp; Recreation</b>	BS	*Health, PE, Rec	Hlth, PE, Rec
	BS	Health Science	
	BS	Corp/Com Wellness Mgmt	
<b>History</b>	BA	*History	History
			Political Economy
<b>Industrial Technology</b>	Cert	Auto Body Repair	Technology
	Cert	Auto Mechanics Technician	
		Graphic Arts Prep	
		Technical Plant Services	
<b>Journalism</b>	BA	Broadcast Journalism	Advertising
	BA	Journ (News Editorial)	Broadcast Journalism
	BA	Public Relations	News Editorial
			Public Relations
			Sales
<b>Mathematics</b>	BA	*Mathematics	Mathematics
	BS	*Mathematics	
<b>Modern Languages</b>		(1 year abroad req)	(1 semester abroad req)
	BA	*French	French
	BA	*German	German
	BA	*Spanish	Spanish
	BA	International Studies	
<b>Music</b>	BA	Music	Music
	BMus	*Music Education	
<b>Nursing</b>	AS	Nursing	
	BS	Nursing	
<b>Physics</b>	BA	*Physics	Physics
	BS	*Physics	
<b>Religion</b>	BA	Religious Studies	Practical Theology
	BA	Theology	Religion
	BA	*Religious Education	Biblical Languages

Cert = One-year certificate program

\*Secondary teaching certification available for these disciplines

## PRE-PROFESSIONAL CURRICULA

Southern College offers pre-professional and pre-technical programs in a wide variety of fields which may prepare students for admission to professional schools or to enter upon technical careers. The following pre-professional curricula are offered at Southern College:

Anesthesia	Osteopathic Medicine
Dental Hygiene	Pharmacy
Dentistry	Physical Therapy
Law	Radiology Technology
Medical Technology	Respiratory Therapy
Medicine	Veterinary Medicine
Occupational Therapy	
Optometry	

An A.S. degree in Allied Health is available to students who fulfill pre-professional requirements in the allied health fields of Dental Hygiene, Health Information Administration, Occupational Therapy, and Physical Therapy. Pre-professional and technical admission requirements may vary from one professional school to another. The student is, therefore, advised to become acquainted with the admission requirements of the chosen school.

Detailed requirements for non-degree pre-professional curricula are outlined by department or in the section on "Interdepartmental Programs" (See Index).

## REGISTRATION

Students are expected to register during the scheduled registration periods designated in the school calendar. The registration process is complete only after all procedures have been met and registration forms are returned to the Office of Records. Freshmen are required to participate in the orientation activities.

*Late Registration.* Permission to register late must be obtained from the Director of Records. Students failing to register during the scheduled registration periods will be charged a late registration fee. The course load of a late registrant may be reduced according to the amount of classwork missed. No student may register after two weeks of the semester have elapsed.

*Changes in Registration.* To avoid changes in registration, students should carefully consider the program of courses necessary to meet their objectives. To avoid subsequent adjustments, a balance should be maintained between the course load, work program, and extracurricular activities.

To make program changes, students must obtain the appropriate change of registration voucher at the Office of Records. After obtaining the necessary signatures indicating approval of the change, they must

return the form to the Office of Records. Course changes and complete withdrawals from the school become effective on the date the voucher is filed at the Office of Records. A fee will be assessed for each change in program after the first week of instruction.

A student may not change from one section to another of the same course without the approval of the instructor.

A student may withdraw from a class up to two weeks after mid-term and receive a grade of "W" automatically. A student withdrawing from a class after that date and up to two weeks before the last day of classes will be assigned a grade of "W" or "WF" by the teacher. The grade for any withdrawal during the final two weeks of the semester will automatically be "F."

*Auditing Courses.* With the approval of the department, students may register on an audit basis in courses (other than private lessons) for which they are qualified. Auditors are to be admitted to classes of limited enrollment only if there are places after all students who wish to enroll for credit have been accommodated. Class attendance is expected but examinations and reports may be omitted. With the approval of the instructor, a student may change a course registration from audit to credit or from credit to audit only during the first week of instruction. No credit is given for courses audited, and the fee is one-half of the regular tuition charge.

*Canceled Classes.* The Vice President for Academic Administration or a department may cancel a class for which fewer than six students enroll. This policy applies to ordinary classes but not to directed study courses, private lessons, and other special classes such as special methods of secondary teaching. Students enrolled in canceled classes should confer with their advisers to determine alternate means to complete their schedules.

## COURSE LOAD

College courses are expressed in semester hours. A semester hour consists of one fifty-minute class period per week for one semester. Thus, two-semester-hour classes meet two hours a week and three-semester-hour classes meet three hours a week. A laboratory period of two and one-half to three hours is equal to one class period. Students should expect to study up to two hours outside of class for each fifty-minute period the class meets. Ideally, a sixteen-semester-hour class load should require up to 32 hours of study each week by the student. Except by permission of the Vice President for Academic Administration, a student may not register for eighteen or more semester hours.

To qualify for a baccalaureate degree in four years, a student must average between fifteen and sixteen hours per semester. The summer

term may be used to advantage by students wishing to complete degree requirements in less than four years or by students having to take reduced programs of studies during the regular academic year. The typical class load during the summer is one three-hour class per session.

*Study-Work Program.* It is important that the student adjust the course load to achieve a reasonable balance in study and work. During registration the student should confer with his adviser in planning the proper balance of study and work. In determining an acceptable study-work program, the following will serve as a guide:

<u>Course Load</u>	<u>Maximum Work Load</u>
16 hours . . . . .	16 hours
14 hours . . . . .	20 hours
12 hours . . . . .	26 hours
10 hours . . . . .	32 hours
8 hours . . . . .	38 hours

### ACADEMIC ADVISEMENT

Southern College is committed to assist every student in the area of academic advisement. Every full-time student is assigned an academic adviser from his/her major field and is required to consult with the adviser before registering for classes.

In planning the program of studies for each semester, the student should carefully follow the recommended sequence of course requirements outlined in this CATALOG. The final responsibility for meeting graduation requirements is the student's.

To avoid possible deficiencies or final curriculum conflicts, students should periodically check with the Records Office to determine whether all curriculum requirements are being met in an orderly and logical sequence. Seniors must file an application for graduation at the fall registration of their senior year.

As early as possible in the process of curriculum planning, students who have chosen a career in teaching should consult the Teacher Certification Officer regarding the requirements for teaching credentials.

### FULL-TIME STUDENT

Students enrolled for twelve or more semester hours and students in the last semester of their senior year who are taking all the courses required for graduation (but no fewer than eight semester hours) will be classified as full-time students. The completion of nine or more semester hours will constitute full-time enrollment for the summer. Students receiving financial aid should consult the Student Finance



Office for the definitions of a full-time student set up by the various agencies which offer aid.

## GRADING SYSTEM

Mid-semester and semester grade reports are issued to the student and parents of students termed "dependent" for income tax purposes. Only semester grades are recorded on the student's permanent record. The following system of grading and grade point values is used:

A	4.0 grade points per hour	D	1.0 grade points per hour
A-	3.7 grade points per hour	D-	0.7 grade points per hour
B+	3.3 grade points per hour	F	0.0 grade points per hour
B	3.0 grade points per hour	W	Withdrawal
B-	2.7 grade points per hour	WF	Withdrew Failing (0.0 grade points per hour)
C+	2.3 grade points per hour	AU	Audit
C	2.0 grade points per hour	I	Incomplete
C-	1.7 grade points per hour	P	Pass
D+	1.3 grade points per hour		

A student may receive an "I" (Incomplete) because of illness or other unavoidable delay. Students who are eligible for an incomplete must secure from the Office of Records the proper form and file the application with the teacher to receive an incomplete. There is a charge of \$7.50 for processing grades of incomplete. **Any incomplete which is not removed by the end of the following term (Fall, Spring, Summer) will automatically become an "F."**

A course may be repeated before the student takes a more advanced course in the same field. Only the last grade will be counted on repeated courses. No course may be repeated more than once without permission from the Vice President for Academic Administration.

The grade point average is calculated by dividing the total number of grade points earned by the hours attempted.

## STUDENT RECORDS

A student's record is regarded as confidential, and release of the record or of information contained therein is governed by regulations of the federal law on "Family Educational Rights and Privacy." Only directory information, such as a student's name, address, telephone listing, birthplace and date, major fields of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended, may be released by the institution without consent of the student unless the student has asked SC to withhold such information.

Parents of students termed "dependent" for income tax purposes are entitled to access to the student's educational records. The law also provides for the release of information to college personnel who demonstrate a legitimate educational interest, other institutions engaged in research (provided information is not revealed to any other parties), and certain federal and state government officials.

A student may inspect and review records and is entitled to challenge the content of records.

A more thorough explanation of records may be obtained from the Office of Records. The Director of Records will further explain and clarify the Family Educational Rights and Privacy Act to students, parents, or interested parties upon request.

### ACADEMIC HONESTY

Morally and spiritually, Southern College is dedicated to scholastic integrity. Consequently, both students and faculty are required to maintain high, ethical Christian levels of honesty.

#### *Faculty Responsibilities:*

1. Teachers must explain clearly the requirements for assignments, examinations, and projects, such as "open book," "take home," or "peer collaboration."

2. Teachers may assume "no collaboration" is the rule unless they state otherwise.

#### *Student Responsibilities:*

1. Students assume responsibility to avoid plagiarism by learning the proper procedures for acknowledging borrowed wording, information, or ideas. Otherwise students might innocently misrepresent others' material as their own.

2. Students unfamiliar with procedures for citing sources should confer with their teachers.

3. Students are to assume that all course work is "no collaboration" unless stated otherwise by the teacher.

#### *Departmental Policies:*

Some departments, because of the nature of their programs, have additional honesty policies which have the same force as those published here. Such policies will be presented to students before implementation.

#### *Procedures for Handling Academic Dishonesty:*

1. When a teacher suspects academic dishonesty in some form, such as cheating or plagiarizing, the teacher must first confront the student

with the dishonesty. If the student and teacher cannot resolve the situation, or if the student's grade will be affected, then the Vice President for Academic Administration must be consulted.

2. In established instances of academic dishonesty, the usual procedures for the teacher to follow will be to:

- a. Give the student a failing grade on the exam, assignment or project if the magnitude of either is not sufficient for failing the class.
- b. Give the student a failing grade in the class if failing the exam, assignment or project would constitute failing the class. The teacher will then write up the incident and state the penalty administered, giving a copy to both the Vice President for Academic Administration and the student.

3. Two incidents of academic dishonesty make a student eligible to be dismissed from college. However, the student may then appeal the action through the established appeal procedures spelled out in the "Grievance Procedure" section of this CATALOG.

### ACADEMIC PROBATION AND DISMISSAL

When for any reason a student's Southern College or cumulative GPA falls below 2.00, the student will be placed on academic probation and restricted from holding office in any student organization or being a member of any touring group. Those on academic probation will not be allowed to participate in academic activities causing class absences.

Any baccalaureate senior with a grade point average of less than 2.25 in his/her major will also be placed on academic probation. Candidates for an associate of science degree must have a GPA of at least 1.95 before being accepted for their final year and at least 2.00 after attempting 53 or more semester hours. Candidates for a one-year certificate must have at least a 2.00 average at the end of the second semester of enrollment. No more than one additional semester of enrollment will be permitted. If the 2.00 grade point average is not then reached, the student will be dismissed.

Transfer students must have a grade point average of at least 2.00 in order to be eligible for regular admission to Southern College.

A student will be subject to academic dismissal when the Southern College or cumulative grade point average fails to reach the levels indicated below. The academic record will be reviewed by a committee, and the Vice President for Academic Administration will notify the student in writing of the committee's decision.

**ACADEMIC PROBATION AND DISMISSAL, cont.**

<i>Semester Hours Attempted</i>	<i>G.P.A./Subject to Dismissal</i>
6 - 48	1.50
49 - 64	1.65
65 - 80	1.75
81 - 93	1.85
94 - 116	1.95
117 - up	2.00

A student academically dismissed may not be readmitted until two sessions (for this purpose the summer is counted as one session) have elapsed. Eligibility for readmission shall include successful college-level work taken in another institution or other evidence of maturity and motivation.

Students receiving financial aid must also meet an academic progress policy set by the federal government. For further explanation see page 31, "Southern College Academic Progress for Federal and Institutional Student Financial Aid."

**RIGHT OF PETITION**

Students who believe there is a valid reason for requesting variance from or exception to an academic policy stated in the CATALOG may make a petition to the Vice President for Academic Administration for consideration of their case after obtaining the advice and signature of the department chair of their major. The petition must contain a statement of the request and supporting reasons. Students will be notified in writing by the Vice President for Academic Administration of the action on petitions within five working days. Petition forms are available from the Records Office.

**GRIEVANCE PROCEDURE**

Students who believe that their academic rights have been infringed upon or that they have been treated unjustly with respect to their academic program are entitled to a fair and impartial consideration of their cases. They should do the following to effect a solution:

1. Present the case to the teacher or teachers concerned.
2. If necessary, discuss the problem with the department chair.
3. If agreement is not reached at this level, submit the matter to the Vice President for Academic Administration.
4. Finally, ask for a review of the case by the Grievance Committee, chaired by the Vice President for Academic Administration or his designee and including three other faculty members and two students selected by the Academic Affairs Committee. Both the student and the teacher involved in the case are entitled to

**GRIEVANCE PROCEDURE, cont.****4. cont.**

appear before the committee or to present a written statement of the case. The decision of the committee shall be presented in writing to the individuals involved within three days of the committee meeting unless a later time is agreed upon by both parties. The decision of the committee is binding and will be implemented by the teacher involved or the Vice President for Academic Administration.

**ABSENCES**

*Class.* Attendance at class and laboratory appointments is expected. Teachers prepare an absence policy for each class, which includes an explanation of penalties, if any, for absences, and the procedure for making up work, if such is allowed. It is the responsibility of teachers to publish their policies for each class at the beginning of each semester, but it is the students' responsibility to familiarize themselves with the practices of each teacher from whom they are taking classes. Generally speaking, teachers will not excuse absences for reasons other than illness, authorized school trips, or emergencies beyond the students' control.

Students are not penalized if they incur absences while participating in school-authorized activities, but they are held responsible for work they miss and it is their responsibility to initiate arrangements to make up their assignments. One and one-half absences are given for missing a 75-minute class, two for missing a 100-minute class, etc.

*Examination.* Because of problems concerning time, expense and fairness, final examinations will be taken as scheduled in the official examinations schedule. In the case of illness verified by Student Health Service or a physician, death in the immediate family, three examinations scheduled consecutively in one day, or four or more examinations scheduled in one day, a final exam may be rescheduled upon approval by the teacher and the Vice President for Academic Administration. The rescheduled examination will be given at a time convenient to the teacher.

When examinations are rescheduled because of three scheduled consecutively in one day or four in one day, the last examination of the day will normally be the one rescheduled. Examinations rescheduled for any reason other than those listed above, may require a fee of \$63 per examination. All rescheduling requests will be made on a form available at the office of the Vice President for Academic Administration.

*Assembly.* Assemblies are held each Thursday at 11:00 a.m. During weeks of spiritual emphasis, assemblies are held on Tuesday as well. Occasionally, assemblies will be held in the evening or may begin at 10:30 a.m. on Thursday. All students are required to attend 16 assemblies each semester. Failure to meet this assembly requirement may result in suspension of registration. Exceptions to the assembly attendance requirement are made by the Office of Student Services only for legitimate direct work or class conflicts with scheduled assemblies. Any excuses for absences from assembly must be approved by the Vice President for Student Services.

A special series of orientation assemblies is scheduled during the fourth summer session.

### LIMITATIONS ON CLASS ATTENDANCE

Classes at Southern College are open to registered students only. Information disseminated in the classroom or other places of learning is the primary product that the college sells, hence visitors may not expect to enter such gatherings freely. To attend classes visitors must be official guests of the institution with legitimate business in a classroom or have the permission of the instructor.

Visitors who attend classes may not exercise the right to engage in the discussions of a class unless invited to do so. Classes are gatherings at which college employees organize learning experiences about pre-arranged topics as listed in the catalog rather than public forums. Registrants who pay tuition can expect their class rights to be protected from the intrusion of anyone who has not similarly paid for the course.

Teachers and the institution reserve the right to remove legitimate students from classes if their behavior threatens the purposes of the class by exceeding the bounds of normal academic freedom.

Teachers conducting extension classes from other institutions on the Southern College campus share the rights spelled out by this policy.

### WAIVER EXAMINATIONS

Upon the approval of the department chair and the Vice President for Academic Administration, students may obtain a waiver of curricular requirements by successfully completing a comprehensive examination—written, oral, manipulative, or otherwise, as determined by the department involved. A fee of \$48 per examination is charged.

### NONTRADITIONAL COLLEGE CREDIT

In addition to credit earned in the traditional classroom setting, Southern College accepts credit earned by two other means—challenge examinations and correspondence courses.

The goals and objectives of the college emphasize not only facts and concepts but also values and attitudes which are not easily transmitted through correspondence courses or measured by examinations. These values and attitudes can best be developed by the student's interacting over a period of time with peers and teachers committed to moral excellence, critical thinking, and the pursuit of truth. For this reason, most college credits should be earned through class participation. However, the college will permit a maximum of one-fourth of the credit required for a given degree to be earned by these nontraditional means.

*College Credit by Examination.* The college recognizes three types of examinations for credit: challenge examinations prepared by a department which must be passed at "B" level or above, approved College Level Examination Program (CLEP) subject examinations which must be passed at the sixty-fifth percentile or above, and the Advanced Placement Examinations which must be passed with a score of three or better.

Not all classes listed in the catalog are open to challenge examinations. Students must obtain clearance from the department chair for the class they propose to challenge before petitioning to earn credit by examination. Students must also furnish evidence of adequate preparation to challenge a class before the department chair assigns a teacher to prepare a challenge examination. A student may challenge a given course by examination only once. No CLEP or challenge exam may be attempted after the student has been enrolled in that course beyond the second week of a semester. **No course may be challenged as part of the last thirty hours of any degree.** Grades are recorded for departmental challenge examinations and scaled scores are recorded for nationally normed examinations. Permission to take a challenge examination while in residence must be obtained from both the department chair and the Vice President for Academic Administration.

Students may earn a maximum of twelve hours of credit by examination in courses that do not appear in the college catalog if the evaluating tests are approved by the Academic Affairs Committee.

Credit for challenge and/or validation examinations will not be placed on a student's permanent record and is, therefore, not transferable until that student has successfully completed twelve semester hours in residence at Southern College.

Fees charged for challenge examination and credit are listed under "Special Fees and Charges" in the financial section of this CATALOG.

Additional information concerning challenge examinations may be obtained from the Office of Records or the Testing and Counseling Center.

*Correspondence.* A maximum of twelve semester hours of correspondence or extension credit may apply toward a baccalaureate degree program and eight hours toward an associate degree.

Griggs University, a department of Home Study International, Washington, D.C., is the officially recognized correspondence school. Southern College recommends Home Study International for those students needing correspondence credit and accepts all such credits when the study program is approved by the college prior to enrollment. The college accepts credits from correspondence schools which are accredited by NUCEA (National University Continuing Education Association) on the basis that credits are accepted from other regionally accredited colleges.

A student will be permitted to carry correspondence work while in residence only if the required course is unobtainable at the college. Correspondence courses, whether taken while in residence or during the summer, must be approved in advance by the college.

Correspondence work may not apply on the upper division requirements of the major or minor. A minimum grade of "B" must be earned to apply on the lower division requirements for a major. A course in which the student earned a grade of "D" or "F" while in residence may not be repeated by correspondence. No correspondence credit will be entered on the student's record until s/he has earned a minimum of twelve hours in residence with an average of at least "C." Official transcripts must be in the Office of Records before a diploma will be ordered. The graduation date will be the last day of the month after the official transcript is received.

## EXTENSION CLASSES

Extension classes are college classes offered on the campuses of Southern Union academies as an opportunity for seniors to earn college credit in skills areas that will fulfill part of the General Education requirements at Southern College. Instructors are academy teachers who are qualified with appropriate credentials and experience.

To enroll in an extension class students must be members of the senior class with a grade point average of 3.00 or above during the years of their secondary education. The classes that Southern College recognizes are:

ENGL 101 College Composition	3 hours
MATH 120 College Algebra	3 hours
MATH 121 Trigonometry	2 hours

The extension classes must duplicate as nearly as possible their college counterparts in content, degree of difficulty, testing, and grading. Students who successfully complete any of the above classes will receive credit in Area A of the General Education requirements.



## TRANSCRIPTS

Official transcripts of a student's academic record may be obtained by the student upon a written request to the Office of Records. The request must include the student's signature and payment of \$3 in cash, check, or money order for each transcript ordered. Twenty-four hour service is available for \$6. Because of legal difficulties, telephone requests from students and telephone or written requests from other members of the student's family cannot be honored.

A student may receive an unofficial transcript for evaluative purposes without charge by applying in person at the Office of Records. Official transcripts given directly to a student will be stamped "Student Copy." No transcript will be issued for a student whose account is not paid in full or who is delinquent in payment of student loans. **No exceptions will be made.**

## SEQUENCE OF COURSES

A student may not receive credit for a course which is a prerequisite to a course for which s/he has already received credit.

# ACADEMIC ENRICHMENT SERVICES

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## **E. A. ANDERSON LECTURE SERIES**

The E. A. Anderson Lecture Series is an annual feature of the business curriculum. The series is made possible by the generosity of E. A. Anderson of Atlanta, Georgia, for the purpose of giving the student a broader understanding of the business world. The public is invited to attend the lectures free of charge; however, for a fee, continuing education credit is available. Lectures are presented at 8 p.m. in the E. A. Anderson Business Seminar Room, Brock Hall, Room 338.

## **EUGENE A. ANDERSON HEILLER ORGAN CONCERT SERIES**

The Anderson Heiller Organ Concert Series was initiated in 1986 to provide world-class organ concerts. These concerts and workshops are presented by foremost organists from throughout the world. Selected performances are broadcast internationally on the American Public Radio Program, "Pipe Dreams." The series is made possible through the generosity of Eugene A. Anderson of Atlanta, Georgia, for the education and enjoyment of the students and the public. Because of its uniqueness, this series attracts organists and other fine arts enthusiasts from all areas of the country.

The Anton Heiller Memorial Organ, a 70-stop 108-rank tracker, was dedicated in the Collegedale Seventh-day Adventist Church in April 1986. A second instrument, a mean-tone organ with two manuals and 13 stops, is housed in Ackerman Auditorium. Both were built by John Brombaugh and Associates of Eugene, Oregon.

## **FLORENCE OLIVER ANDERSON LECTURE SERIES**

Each year the Nursing Department at Southern College of Seventh-day Adventists brings nationally recognized experts in the health field on campus to address the professional community. Southern College believes education to be a dynamic lifelong process and is committed to providing professional nurses with continuing education opportunities, as well as exposing student nurses to the importance of self-initiated education.

This series of seminars is dedicated to excellence in nursing and is made possible by the generosity of the late Florence Oliver Anderson.

## CHAMBER MUSIC SERIES

Ackerman Auditorium in J. Mabel Wood Hall is the setting for the Chamber Music Series. Each semester two or three artists and/or ensembles provide a variety of listening experiences for students, faculty, and the community. Artists are chosen in such a fashion that over a four-year period a student can become acquainted with solo and ensemble music of many style periods. Master classes are often scheduled in conjunction with a concert.

## STALEY CHRISTIAN SCHOLAR LECTURE SERIES

The Thomas F. Staley Foundation provides the Department of Religion with funds for a speaker to come on campus once a year. This individual is the speaker for a chapel service, usually holds a table-talk session during the lunch hour at the cafeteria, and serves as guest lecturer at several religion classes.

## CLASSIC FILM SERIES

Christian education involves the difficult challenge of learning to live in a secular society while remaining critical of its values. To this end, the Classic Film series, sponsored by Student Services and the History Department, seeks to present films that are historically significant but also informative and entertaining. They are intended to augment the educational and cultural experience of students at the college level and encourage the application of critical thinking to popular culture. Critical notes are provided to aid in deciphering the film's latent content from its manifest content.

## E. O. GRUNDSET LECTURE SERIES

The E. O. Grundset Lecture Series is jointly sponsored by the Southern College Chapter (Kappa Phi) of the Beta Beta Beta National Biological Honor Society and the Biology Department. Five or more lectures are presented each semester by guest speakers. The general public is invited.

The lectures are divided into two categories. The *Technical Research Seminars* are designed to update students, faculty, and the community on current biological research as well as to illustrate to students how biological knowledge is acquired through research. The *Natural History Lectures* are less technical and provide a general understanding of organismic and ecological biology, either by a description of the plants or animals in a certain region or an account of the behavior, habits, or ecology of certain species.

### **ROBERT H. PIERSON LECTURE SERIES**

The Robert H. Pierson Lecture Series brings to the Department of Religion recognized speakers to address faculty, students, and the community on topics of interest in the religious world and in the Seventh-day Adventist Church.

The selected individual usually speaks at a Friday evening and Sabbath morning service in the Religion Chapel, and holds a discussion session Sabbath afternoon.

### **INSTRUCTIONAL MEDIA**

The Instructional Media Service provides audio-visual services to the college administration, faculty, staff, and students. The full-time staff includes a director, secretary, and service technician.

### **LIBRARIES**

McKee Library provides both print and nonprint educational materials for the students and faculty of the college. Open stacks, pleasant areas to read or study, current periodicals, and a large microform collection contribute to the enjoyment of learning. Special collections in the library include the Seventh-day Adventist Heritage Collection: books and materials by SDA authors and about the Seventh-day Adventist Church; and the Dr. Vernon Thomas Memorial Civil War and Abraham Lincoln Collection: books, letters, manuscripts, newspapers, pamphlets, pictures, paintings, maps, and artifacts of this period in American History.

The 10,000 volume extension library at the Orlando Center is well-known throughout central Florida as an outstanding nursing material resource center.

The combined collection of these libraries contains approximately 200,000 items. Approximately 900 periodicals are currently received which include a large number of titles kept permanently on microform. McKee Library has an online computerized card catalog as well as a computerized magazine index. Various databases are available on CD-ROM. The library is a member of Ohio College Library Center and charter member of the Southeastern Library Network automated systems.

The facility has been in use since 1970, and provides seating for 400, including 300 individual study carrels.

### **MARINE BIOLOGICAL STATION**

Southern College is affiliated with two marine biological stations to enrich and supplement its on-campus programs. One of these facilities, the Bahamian Field Station, is located on the island of San

Salvadore, Bahamas, and provides the opportunity for students to study tropical ecology, both terrestrial and marine. This station provides lodging, classroom, and laboratory facilities for studying coral reef, sandy beach, rocky shore, and mangrove swamp biomes.

The affiliation with Walla Walla College's Rosario Beach Marine Biological Station on Fidalgo Island in the Puget Sound provides students with opportunities to study some of these similar habitats in a temperate climate. This station in the state of Washington also furnishes facilities for summer classwork and research. Its close proximity to biomes ranging from sea bottom to Alpine tundra provides an excellent opportunity for instruction and investigation.

### **WSMC FM90.5**

WSMC FM90.5 is a 100,000 watt, noncommercial, fine arts radio station licensed to Southern College.

WSMC provides training for students in the field of broadcasting. The station regularly hires between 15 and 20 students as on-air announcers, or production assistants. The station is an excellent way for the student to receive hands-on experience in the field of broadcasting.

WSMC represents the college to the Greater Chattanooga community, with a coverage area including a 100-mile radius of Chattanooga. Founded in 1961, it is the oldest noncommercial fine arts station in southeastern Tennessee. WSMC was the first radio station in a seven-state region to receive satellite capability. The station also exists as an outreach of the college--striving to enhance the quality of life in the community.

The station produces high-quality fine arts, informational, educational, and inspirational programs. WSMC is affiliated with National Public Radio, American Public Radio, the Associated Press, and the Adventist Radio Network.

WSMC's broadcast studios are located in Brock Hall. The facility includes a studio-quality production room, news room, music library, and on-air studios.

# DEPARTMENTAL COURSES OF STUDY

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## COURSE NUMBERS

Each course number consists of three figures as follows:

**HIST 354. Latin America (C-1), (W)**

**3 hours**

The first numeral indicates class year status as follows:

- 0--Developmental (no credit)
- 1--freshman level (lower division)
- 2--sophomore level (lower division)
- 3--junior level (upper division)
- 4--senior level (upper division)

Within a given 100 sequence there is no significance in one course number being higher than another. For instance, 265 does not necessarily mean that the course is on a higher level than 235.

Course numbers separated by a hyphen are two-semester courses in which credit for the first course is a prerequisite to the second [e.g., ENGL 101-102. College Composition]. However, credit is given for the first semester when taken alone.

Course numbers that stand alone represent courses of one semester which are complete units. Course numbers separated by a comma [e.g., HIST 154, 155. American History and Institutions] represent complete units, either one of which is counted for graduation without reference to sequence.

Designation in brackets following course titles, [e.g., MATH 103. Survey of Mathematics (A-2)] indicates the General Education area and sub-area that the class fulfills. Classes designated with a "(W)" are writing classes for General Education credit.

**Students may earn credit for a cross-listed course from only one department [e.g. HIST 356 and SOCI 356].**

## COGNATE COURSES

Required courses related to the major which are not a part of the major are called cognate courses [e.g., students majoring in Nursing are required to take Microbiology as a cognate course].

# ALLIED HEALTH

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**Chair:** Stephen A. Nyirady

**Faculty:** Joyce Azevedo, David Ekkens, William Hayes, Henry Kuhlman

**Adjunct Faculty:** John Lechler

**Medical Technology:** Lee Alan Forsythe, Rodney Holcomb,  
R. A. Ramkissoo, Patricia Rogers

The Allied Health Professions are rapidly growing areas of specialization within the health care industry. Job openings are plentiful and pay scales are comparable to other professionals in health care. The department offers a B.S. degree in Medical Technology and an A.S. degree in Allied Health (Pre-Dental Hygiene, Pre-Occupational Therapy, Pre-Physical Therapy).

## BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

**Adviser:** Henry Kuhlman

The Bachelor of Science degree with a major in medical technology consists of three years of prescribed study at Southern College and a 12- to 13-month senior year in a hospital-based medical technology program accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. Hospital programs affiliated with Southern College include Florida Hospital Medical Center and Hinsdale Hospital. Internship in other CAHEA-accredited programs requires prior college approval.

The Medical Technology degree qualifies a person to take a number of national certifying examinations, including those offered by the Board of Registry of the American Society of Clinical Pathologists (ASCP) and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Certified laboratory professionals work in hospitals, clinics, physicians' offices, public health agencies, private laboratories, pharmaceutical firms, and research institutions.

The curriculum prescribed by Southern College is designed to meet the requirements of the college and of the Committee on Allied Health Education and Accreditation (CAHEA). Affiliated hospitals may have additional requirements. Students should consult the brochures or advisers of the specific hospitals for those requirements.

Occasionally pre-dental students, pre-medical students, and graduating seniors in biology or chemistry may wish to become certified Medical Technologists. This is possible if the student plans courses to fulfill the requirements of the college and the hospital program.

During the fall semester of the third year, students must apply for admission to an affiliated hospital-based medical technology program. Acceptance of the individual student to the senior year program is determined by the hospital. To be eligible for admission, a student must complete all of the college course requirements prior to beginning the clinical year. The overall grade point average must be acceptable to the college for graduation. Most hospital programs do not accept students with less than a 2.75 cumulative average on a 4.0 system. Although hospital acceptances are granted during the junior year, they are conditional, pending satisfactory completion of the stated admission criteria.

Written information about each of the affiliated hospital-based medical technology programs is available through the college medical technology adviser. The student should be aware that acceptance criteria, pre-clinical course requirements, application procedures, tuition for the senior year, and program formats may vary at each affiliated hospital. Southern College charges a \$55 recording fee for the clinical year.

● **MAJOR** ..... 2

**MDTC 225. Introduction to Medical Technology** ..... **2 hours**

This course is designed to acquaint prospective medical technologists with the profession. The history and standards of medical technology and employment opportunities will be surveyed. Elementary clinical laboratory procedures will be taught and laboratory tours will be conducted.

● **COGNATES** ..... 42

- BIOL including 151-152, 315, 330, 340 ..... 17
- \*CHEM including 151-152, 311-314, ..... 16
- CPTR 120 or 131 ..... 3
- MATH 120 ..... 3
- BUAD 334 ..... 3

\*These must be courses which could apply to a Chemistry major.

**GENERAL EDUCATION REQUIREMENTS** ..... 35

- AREA A 1. ENGL 101, 102 ..... 6
- 2. (See Cognates)
- AREA B Religion ..... 9
- AREA C History, Political Science, and Economics ..... 6
- AREA D Language, Literature, and Fine Arts ..... 6
- AREA E (See Cognates)
- AREA F Behavioral, Family, or Health Sciences ..... 3
- AREA G Activity Skills ..... 5

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● Grades of C- and better are required in the major and cognates. A minimum GPA of 2.25 must be earned on the major and cognates.

Twenty hours of upper division credit, including two writing (W) courses are required. One (W) course must be in a cognate area and one in a noncognate area.



**ELECTIVES ..... 14**

Recommendations include:

- BIOL 316, 415, 417, 418
- CHEM 315, 321, 323
- MATH 215
- PHYS 211-212, 213-214

**TOTAL PRE-CLINICAL CREDIT HOURS ..... 93**

**HOSPITAL CLINICAL (SENIOR) YEAR ..... Variable**

Individual affiliated hospital programs should be consulted for their specific courses and credits. Approximately forty credit hours are given in the twelve to fifteen-month clinical programs. Courses taught in affiliate programs include:

Introduction to Medical Laboratory Science, Urinalysis, Hematology, Hemostasis, Immunology, Immunohematology, Clinical Microbiology, Clinical Mycology, Clinical Parasitology, Clinical Biochemistry, Instrumentation, Research.

**Typical Sequence of Courses for  
B.S. MEDICAL TECHNOLOGY**

<u>YEAR 1</u>	<u>Semester</u>		<u>YEAR 2</u>	<u>Semester</u>	
	<u>1st</u>	<u>2nd</u>		<u>1st</u>	<u>2nd</u>
BIOL 151-152	*General Biology	4 4	CHEM 311,312	*Organic Chemistry	3 3
CHEM 151-152	*General Chemistry	4 4	CHEM 313,314	*Organic Chem Lab	1 1
ENGL 101-102	College Composition	3 3	BIOL 330	*Gen Microbiology	4 4
HIST 174, 175	Survey of Civ	3 3	PSYC 124	Intro to Psychology	3 3
	Area G-3, Rec Skills	1 1	MATH 120	*College Algebra	3 3
	Elective	2 2	MDTC 225	*Intro to Med Tech	2 2
		15 16	RELB 125	Teachings of Jesus	3 3
			RELT 138	Adventist Heritage	3 3
				Literature ‡	3 3
				Area G, Act Skills	2 1
					15 16
<b>YEAR 3</b>					
		<u>Semester</u>		<u>YEAR 4</u>	
		<u>1st</u>	<u>2nd</u>	Clinical Year	
BIOL 315	*Parasitology		3		
BUAD 334	*Principles of Mgmt	3			
CPTR 131	*Fund of Prog I	3			
BIOL 340	*Immunology		2		
	Biology Electives†	3			
	Area B, UD Religion		3		
	Area D,				
	Lang/Lit/FArt		3		
	Electives §	6 5			
		15 16			

\*An asterisk in front of a subject indicates Med-Tech requirement.  
 † Recommended Biology courses: BIOL 316, 415, 417.  
 § Recommended Physics courses: (PHYS 211-212, 213-214)

**20 upper division credits, make-up of any admissions deficiencies, and 93 total hours must be completed prior to the clinical year.**

**ASSOCIATE OF SCIENCE IN ALLIED HEALTH**

The Associate of Science degree in Allied Health Professions prepares the student for admission to professional programs at Loma Linda University, Andrews University, or other universities. Admission to any professional school is dependent on meeting the GPA and prerequisite requirements of the individual school. Students desirous of admission to professional programs other than the ones specifically outlined in the following pages, should check the bulletin of that school to ascertain the entrance requirements.

Students who plan to graduate from Southern College with an Associate Degree in Allied Health must meet the A.S. degree general education requirements of SC as well as the entrance requirements of an accredited clinical program to which they will be applying.

Applications for transfer to the junior year of colleges offering Allied Health programs must be made early in the second semester of the final year at Southern College. The lowest acceptable grade for courses to be transferred is C. A minimum grade point average of 2.00 is required for the Associate of Science degree at Southern College, but grade point averages between 2.50 and 3.50 are considered minimal for entrance to the junior year of most clinical Allied Health programs. Some programs require the Allied Health Professions Admissions Test (AHPAT).

The major Allied health areas in which a two year Associate Degree may be earned at Southern College are:

- pre-Cytotechnology
- pre-Dental Hygiene
- pre-Nutrition and Dietetics
- pre-Occupational Therapy
- pre-Physical Therapy
- pre-Physician Assistant
- pre-Speech Language Pathology & Audiology
- pre-Surgeon's Assistant

The department also offers one-year curricula to meet requirements for entrance into the following Allied Health degree programs at Loma Linda University and most other university programs:

- Occupational Therapy Assistant (Associate in Science Degree)
- Physical Therapy Assistant (Associate in Science Degree)
- Radiologic Technology (Associate in Science and Bachelor of Science Degrees)
- Respiratory Therapy (Associate in Science and Bachelor of Science Degrees)

For details on these or other programs not listed here and for Southern College curricula for entrance into them write:

Chair, Allied Health Department  
 Southern College of SDA  
 P.O. Box 370  
 Collegedale, TN 37315-0370

**PRE-CYTOTECHNOLOGY**

Cytotechnologists are specially trained laboratory technologists who work with pathologists to detect changes in body cells that may be important in the early diagnosis of cancer and other diseases. Using special techniques, cytotechnologists prepare cellular samples for study under the microscope and assist in the diagnosis of disease by examination of the samples. Using the findings of cytotechnologists, a physician is then able, in many instances, to diagnose cancer and other diseases even before they can be detected by other methods. Most cytotechnologists work in hospitals or in private laboratories, while some prefer to work on research projects or to teach.

**Adviser: Stephen A. Nyirady**

(Program meets admission requirements for Loma Linda University)  
 (Curriculum can be modified to meet requirements of other schools)

- Area A ENGL 101-102; MATH 120
  - Area B RELT 138, 268, or 373, 6 hours
  - Area C HIST, 3 hours
  - Area D Foreign Lang/Lit/Fine Arts, 3 hours
  - Area E BIOL 101-102, 151-152, 225; CHEM 111-112, CHEM 113-114
  - Area F HLED 173\*; PSYC and SOCI, 8 hours\*\*
  - Area G PEAC, 3 hours; CPTR 120
- Electives to make a total of 64 hours.

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 \*Waived if high school health course taken.  
 \*\*May include PLSC 254, ECON 213 or 224 for LLU requirements.

**Typical Sequence of Courses for  
 A.S. PRE-CYTOTECHNOLOGY**

<u>YEAR 1</u>	<u>Semester</u>		<u>YEAR 2</u>	<u>Semester</u>	
	<u>1st</u>	<u>2nd</u>		<u>1st</u>	<u>2nd</u>
BIOL 101-102	Anatomy & Phys	3 3	BIOL 225	Basic Microbiology	4
BIOL 151-152	General Biology	4 4	CHEM 111-112	Survey of Chemistry	3 3
ENGL 101-102	College Comp	3 3	CHEM 113-114	Survey of Chem Lab	1 1
MATH 120	College Algebra	3	CPTR 120	Computer Based Sys	3
PSYC	Psychology	3	HLED 173	Health & Life*	2
RELT 138	Adventist Heritage	3	PLSC/ECON	Pol Sci/Economics	3
SOCI	Sociology	3		Area B, Religion**	3
		16 16		Area C, History	3
				Area G-3, Rec Skills	1 2
				Area D, Forgn Lang/Lit/ Fine Arts	3
					16 16

\*Waived if high school health class taken.  
 \*\*RELT 268 or 373.  
 NOTE: C is the lowest acceptable grade.

**PRE-DENTAL HYGIENE**

Dental hygienists provide preventative dental care and encourage patients to develop good oral hygiene skills. In addition to carrying out clinical responsibilities such as cleaning and scaling teeth, hygienists help patients develop and maintain good oral health by explaining the relationship between diet and oral health. Although most hygienists work with individual patients, some develop and promote community dental health programs. In addition to career opportunities within dental offices, dental hygienists apply their skills and knowledge in other career activities including office management, business administration, dental hygiene education, research and marketing of dental related equipment and materials.

**Adviser: Stephen A. Nyirady**

(Program meets admission requirements for Loma Linda University.)  
(Curriculum can be modified to meet requirements of other schools.)

- Area A ENGL 101-102; 2 years of high school math with a C grade or better and 22 math ACT score\*
  - Area B RELT 138, 268, or 373, 6 hours
  - Area C HIST, 3 hours
  - Area D Foreign Lang/Lit/Fine Arts, 3 hours; SPCH 136
  - Area E BIOL 101-102, 225; CHEM 111-112, 113-114
  - Area F HLED 173\*\*; PSYC 128; SOCI 125; 3 additional hours of PSYC, PLSC, or ECON
  - Area G PEAC, 3 hours; Creative or Practical Skills, 1 hour
- Electives to make a total of 64 hours

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\*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.  
\*\*Waived if high school health class taken.

**Typical Sequence of Courses for  
A.S. PRE-DENTAL HYGIENE**

		Semester				Semester	
		1st	2nd			1st	2nd
<b>YEAR 1</b>				<b>YEAR 2</b>			
ENGL 101-102	College Composition	3	3	CHEM 111-112	Survey of Chemistry	3	3
BIOL 101-102	Anatomy & Physiology	3	3	CHEM 113-114	Survey of Chem Lab	1	1
MATH 103	Survey of Math*	0-3		BIOL 225	Basic Microbiology	4	
PSYC 128	Developmental Psych		3	HLED 173	Health and Life**		2
SOCI 125	Intro to Sociology	3			Area B, Religion***	3	
RELT 138	Adventist Heritage	3			Area D, Forgn Lang/ Lit/Fine Arts		3
SPCH 136	Interpersonal Comm		3		Area G-1/2, Creative/ Practical	1	
	Area G-3, PE Activity	1	1		Area G-3, PE Activity	1	
	Area C-1, History		3		Psychology, Political Science or Economics		3
	Electives	3-0			Electives	3	4
		16	16			16	16

\*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.  
\*\*Waived if high school health class taken.  
\*\*\*RELT 268 or 373.  
NOTE: C is the lowest acceptable grade. The Allied Health Professions Admission Test (AHPAT) is required.

**PRE-NUTRITION AND DIETETICS**

Dietitians and nutritionists use their knowledge of the principles of nutrition to help people develop healthy eating habits. Dietitians may be involved in setting up and supervising food service systems for institutions such as hospitals, prisons, and schools; and promote sound eating habits through education and research. Clinical dietitians provide nutritional services for patients in hospitals, nursing homes, clinics, or doctors' offices. Community dietitians counsel individuals and groups on nutritional practices designed to prevent disease and promote good health. Management dietitians are responsible for large scale meal planning and preparation in such places as hospitals, nursing homes, company cafeterias, and schools.

**Adviser: Stephen A. Nyirady**

(Program meets admission requirements for Loma Linda University)  
 (Curriculum can be modified to meet requirements of other schools)

- Area A ENGL 101-102; 2 years high school math with C grade or better and 22 math ACT score\*
  - Area B RELT 138, 268, or 373, 6 hours
  - Area C HIST, 3 hours
  - Area D SPCH 135; Foreign Lang/Lit/Fine Arts, 3 hours
  - Area E BIOL 101-102, 225; CHEM 111-112, 113-114
  - Area F FDNT 125; HLED 173\*\*; PSYC 124; SOCI 125
  - Area G PEAC, 3 hours, Creative or Practical Skills, 1 hour
- Electives to make a total of 64 hours.

\*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.  
 \*\*Waived if high school health course taken.

**Typical Sequence of Courses for  
 A.S. PRE-NUTRITION AND DIETETICS**

YEAR 1	Semester		YEAR 2	Semester	
	1st	2nd		1st	2nd
ENGL 101-102	College Composition	3 3	BIOL 225	Basic Microbiology	4
BIOL 101-102	Anatomy & Physiology	3 3	CHEM 111-112	Survey of Chemistry	3 3
MATH 103/120	Surv Math/Coll Alg*	3	CHEM 113-114	Survey of Chem Lab	1 1
SOCI 125	Intro to Sociology	3	HLED 173	Health & Life**	2
PSYC 124	Intro to Psychology	3	FDNT 125	Nutrition	3
RELT 138	Adventist Heritage	3		Area B, Religion ***	3
SPCH 135	Intro to Public Spkg	3		Area G-1/3, Creative/ Practical	1
	Area C, History	3		Area G-3, Rec Skills	1
	Area G-3, Rec Skills	1 1		Area D, Forgn Lang/Lit/ Fine Arts	3
		16 16		Electives	4 3
					16 16

\*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.  
 \*\*Waived if high school health class taken.  
 \*\*\*RELT 268 or 373.  
 NOTE: C is the lowest acceptable grade.

**PRE-OCCUPATIONAL THERAPY**

An occupational therapist works with people whose lives have been disrupted by physical injury or illness, developmental problems, the aging process, and social or psychological difficulties. Occupational therapists use selected educational, vocational and rehabilitative activities to help individuals reach the highest functional levels possible, become self reliant and build a balanced lifestyle of work and leisure.

**Adviser: Stephen A. Nyirady**

(Program meets admission requirements for Loma Linda University)  
(Curriculum can be modified to meet requirements of other schools.)

- Area A ENGL 101-102; 2 years high school math with C grade or better and 22 math ACT score\*; MATH 215
  - Area B RELT 138, 268 or 373, 6 hours
  - Area C HIST, 3 hours
  - Area D SPCH 135; Foreign Lang/Lit/Fine Arts, 3 hours
  - Area E BIOL 101-102; CHEM 111, 113; PHYS 137
  - Area F HLED 173\*\*; PSYC 124, 128; SOCI 125, Cultural Anthropology\*\*\*; PSYC 233, SOCI 223, or SOCI 233, 3 hours
  - Area G PEAC, 3 hours; Creative or Practical Skills, 1 hour, recommended: ART 235, TECH 154
- Electives to make a total of 64 hours.

A minimum of 80 hours work experience (volunteer or as an employee) in an occupational therapy department is required.

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 \*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.  
 \*\*Waived if high school health course taken.  
 \*\*\*Not offered by Southern College—may be taken at a state university, correspondence course, or during the clinical program at LLU.

**Typical Sequence of Courses for  
A.S. PRE-OCCUPATIONAL THERAPY**

<u>YEAR 1</u>		<u>Semester</u>			<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3		ART 235	Ceramics (elective)	3	
BIOL 101-102	Anatomy & Physiology	3	3		CHEM 111	Survey of Chemistry	3	
MATH 103/120	Surv Math/Coll Alg*	3			CHEM 113	Survey of Chem Lab	1	
SOCI 125	Intro to Sociology		3		HLED 173	Health & Life**	2	
PSYC 124	Intro to Psychology	3			MATH 215	Statistics		3
RELT 138	Adventist Heritage	3			PHYS 137	Intro to Physics		3
SPCH 135	Intro to Public Spkg		3		PSYC 128	Developmental Psych		3
	Area C, History		3		TECH 154	Woodworking (elective)		3
	Area G-3, Rec Skills	$\frac{1}{16}$	$\frac{1}{16}$			Area B, Religion***	3	
						Area F-1, Beh Sci	3	
						Area G-3, Rec Skills		1
						Area D, Forgn Lang/ Lit/Fine Arts		3
						Electives	$\frac{1}{16}$	$\frac{1}{16}$

\*Math 103 or 114 is required by Southern College of students with ACT math scores below 22.  
 \*\*Waived if high school health class taken.  
 \*\*\*RELT 268 or 373.  
 NOTE: C is the lowest acceptable grade.

## PRE-PHYSICAL THERAPY

Physical therapists work to improve the mobility, relieve the pain, and prevent or limit the permanent disability of patients suffering from injuries or disease. Their patients include accident victims or handicapped individuals with such conditions as nerve injuries, amputations, low back pain, arthritis, and heart disease. Some physical therapists treat a wide variety of problems and others specialize in such areas as pediatrics, orthopedics, and sports physical therapy. The working environment of physical therapists varies from specially equipped facilities in hospitals or clinics to schools, private offices, and private homes.

**Adviser: David Ekkens**

**Program below meets Andrews University admission requirements.**

- Area A ENGL 101-102; MATH 103 (or 22 Math ACT); MATH 215
- Area B RELB or RELT, 3 hours; RELT 255 or 225
- Area C HIST 174 or 175
- Area D SPCH 135; Fine Arts, 3 hours
- Area E BIOL 101-102, 225; CHEM 151-152; PHYS 211-212, 213-214
- Area F PSYC 124, 128; GEOG, PLSC, or ECON, 3 hours
- Area G PEAC, 2 hours; CPTR 120

Electives to make a minimum total of 64 hours

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\*HIST 154 required if not taken in high school.

BIOL 151-152 may be substituted for BIOL 101-102. Recommended electives are FDNT 125, ECON 213, ACCT 103.

Andrews University requires 3.00 GPA in science prerequisites and total credits. C is the lowest acceptable grade for science and cognate courses. Also required is the Nelson-Denny Reading test and 80 hours of observation or work experience with a Registered Physical Therapist. This 80 hours must include at least 16 hours in each of two physical therapy settings plus 20 hours in a general acute care hospital. The settings to choose from are: home health agency, pediatric therapy, outpatient clinic, rehabilitation center, nursing home, and specialized clinic.

**Program below meets Loma Linda University admission requirements.**

- Area A ENGL 101-102; MATH 120, 215
  - Area B RELT 138, 225 or 373, 6 hours
  - Area C HIST 174, 175, 154, or 155
  - Area D Fine Arts\*, 3 hours; SPCH 135
  - Area E BIOL 151-152, (or BIOL 101-102), 225; CHEM 151-152; PHYS 211-212, 213-214 (see note at end of section)
  - Area F PSYC 124, 128; HLED 173\*\*
  - Area G PEAC, 3 hours
- Cognates SPCH or CPTR course and an ECON/POL SCI/SOCI course

Loma Linda University requires a 3.00 GPA in science prerequisites and for total credits. Also required is a minimum of 80 hours work experience (volunteer or employee) in a physical therapy department, 20 of which are in a general, acute-care hospital.

\*\*\*\*\*  
\*MUHL 115 or ART 218 may be selected.

\*\*Not required if health class was taken in high school (C grade or better).

**Typical Sequences of Courses for  
A.S. PRE-PHYSICAL THERAPY**

Requirements for entrance to the junior year of a Physical Therapy course will depend on the college selected. Requirements for Andrews University and Loma Linda University are outlined below. Students who complete one of these programs will be awarded an Associate of Science degree by Southern College. Students planning to attend other colleges should contact them to obtain their requirements.

**ANDREWS UNIVERSITY REQUIREMENTS**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 101-102	Anatomy & Physiology*	3	3	BIOL 225	Basic Microbiology	4	
HIST 175	World Civ***		3	RELT 255	Christian Beliefs	3	
PSYC 124	Intro to Psychology	3			or		
PSYC 128	Developmental Psych		3	RELT 225	Last Day Events		
MATH 103	Survey of Math**	3		MATH 215	Statistics		3
RELB	Religion	3		CPTR 120	Computer Based Syst	3	
SPCH 135	Intro to Public Spkg		3		Area D-3, Music or		
	Area G-3, Rec Skills	1			Art Appreciation****		3
	Electives		<u>1</u>		Area G-3, Rec Skills	1	
		<u>16</u>	<u>16</u>		Pol Sci, Geog, or Eoon		3
					Electives		<u>1</u>
							<u>16</u>

Note: A physics sequence with laboratory is required for entrance into the program. This is offered at Andrews University immediately preceding their first quarter. PHYS 211-212 and 213-214, 8 semester hours at SC, will fulfill this requirement.

\*BIOL 151-152, General Biology, may be substituted.

\*\*Not required if the MATH ACT score is 22 or higher.

\*\*\*American History required only if not taken in high school.

\*\*\*\*A two-semester sequence in a music organization may be substituted.

**LOMA LINDA UNIVERSITY REQUIREMENTS**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 151-152	General Biology	4	4	BIOL 225	Basic Microbiology	4	
	or			HLED 173	Health & Life*		2
BIOL 101-102	Anatomy & Physiology	3	3	CPTR 120	Computer Based Syst	3	
PSYC 124	Introduction to Psych	3		MATH 215	Statistics		3
PSYC 128	Developmental Psych		3		Area B, Religion***		3
MATH 120	College Algebra	3			Area C, History		3
RELT 138	Adventist Heritage	3			Area D, Fine Arts**		3
SPCH 135	Intro to Public Spkg		3		Area G-3, Recreation	<u>2</u>	<u>1</u>
	Electives		<u>3</u>				<u>16</u>
		<u>16</u>	<u>16</u>				
			(15)(15)				

\*Not required if health class was taken in high school (C grade or better).

\*\*MUHL 115, ART 218, or HMNT 205.

\*\*\*RELT 268 or 373.



**NOTE:** A total of 66 semester hours is required for admission. Other entrance requirements are the Allied Health Professions Admissions Test and a minimum of 80 hours work experience (volunteer or as an employee) in a physical therapy department. C is the lowest acceptable grade for a course.

**NOTE:** A physics sequence with laboratory is required for entrance into the program. This is offered at La Sierra University immediately preceding first quarter. PHYS 211-212 and 213-214, 8 semester hours at SC, will fulfill this requirement. PHYS 111, 3 semester hours at SC, fulfills the first half of this requirement.

## PRE-PHYSICIAN ASSISTANT

Physician assistants are trained to perform many of the essential tasks involved in patient care. They take medical histories, perform physical evaluations, order laboratory tests, make preliminary diagnoses, prescribe appropriate treatments, and recommend medications and drug therapies. They also treat minor problems such as lacerations, abrasions, and burns. Physician assistants work in a variety of practice settings and specialty areas. The most important practice setting is in a physician's office. They also work at hospitals and clinics. Specialties using PA's are family practice, internal medicine, general and thoracic surgery, emergency medicine, pediatrics, and various medical sub-specialties.

**Adviser: Stephen A. Nyirady**

(Program meets admission requirements for Trevecca Nazarene College, Nashville)

(Curriculum can be modified to meet requirements of other schools)

Area A ENGL 101-102; MATH 103 or 120

Area B RELB 125, RELT 255

Area C HIST 174, 175

Area D SPCH 135, ENGL 216

Area E BIOL 101-102, 225; CHEM 151-152

Area F PSYC 124, 128

Area G PEAC, 1 hour; OFAD 316; Creative or Practical Skills, 1 hour

Electives to make a total of 64 hours.

Work or volunteer service in a health care setting is highly recommended.

### Typical Sequence of Courses for A.S. PRE-PHYSICIAN ASSISTANT

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BIOL 101-102	Anatomy & Physiology	3	3	BIOL 225	Basic Microbiology	4	
CHEM 151-152	General Chemistry	4	4	ENGL 216	Approaches to Lit	3	
ENGL 101-102	College Composition	3	3	HIST 174/175	World Civ	3	3
PSYC 124	Intro to Psychology	3		MATH 103/120	Surv Math/Coll Alg		3
RELB 125	Teachings of Jesus		3	OFAD 316	Medical Terminology	3	
	Area G-1/3, Creative/ Practical Skills		1	PSYC 128	Developmental Psych	3	
	Area G-3, Rec Skills		1	RELT 255	Christian Beliefs		3
	Electives			SPCH 135	Intro to Public Spkg		3
			<u>3</u>		Electives		<u>4</u>
			<u>16</u>			<u>16</u>	<u>16</u>

**PRE-SPEECH LANGUAGE PATHOLOGY & AUDIOLOGY**

Speech language pathologists identify, assess, and treat persons with speech and language disorders while audiologists assess and treat hearing impaired individuals. Because both occupations are concerned with communication, individuals competent in one area must be familiar with the other. The duties of speech language pathologists and audiologists vary. Most, however, provide direct clinical services to individuals with communication disorders. In speech, language, and hearing clinics they may independently develop and implement a treatment program. In private medical centers and other facilities, they may be part of a team that develops and executes a treatment plan. In schools they may help administrators develop individual or group programs, counsel parents on prevention of hearing disorders, and assist teachers with classroom activities.

**Adviser: Stephen A. Nyirady**

(Program meets admission requirements for Loma Linda University)  
 (Curriculum can be modified to meet requirements of other schools)

- Area A ENGL 101-102; 2 years high school math with C grade or better and 22 math ACT score\*
  - Area B RELT 138, 268 or 373, 6 hours
  - Area C HIST, 3 hours
  - Area D SPCH 135; Foreign Lang/Lit/Fine Arts, 3 hours
  - Area E BIOL 101-102; PHYS 137
  - Area F HLED 173\*\*; PSYC 124, 128; SOCI 125, 223 or 233
  - Area G PEAC, 3 hours; Creative or Practical Skills, 1 hour
- Electives to make a total of 64 hours.

\*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.  
 \*\*Waived if high school health class taken.

Typical Sequence of Courses for  
**A.S. PRE-SPEECH LANGUAGE PATHOLOGY & AUDIOLOGY**

<u>YEAR 1</u>		<u>Semester</u>				<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>					<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	HLED 173	Health & Life**			2	
BIOL 101-102	Anatomy & Physiology	3	3	PHYS 137	Intro to Physics				3
MATH 103/120	Surv Math/Coll Alg*	3	3	PSYC 128	Developmental Psych			3	
PSYC 124	Intro to Psychology	3		SOCI	Sociology				3
RELT 138	Adventist Heritage	3			Area B, Religion***				3
SPCH 135	Intro to Public Spkg		3		Area G-1/3, Creative				
	Area C, History		3		Practical				1
	Area G-3, Rec Skills	1	1		Area G-3, Rec Skills				1
	Electives		3		Area D, Forgn Lang/				
		16	16		Lit/Fine Arts				3
					Electives			5	8
								16	16

\*Math 103 or 120 is required by SC of students with ACT math scores below 22; if waived, 3 additional hours of Math/Science required.  
 \*\*Waived if high school health class taken.  
 \*\*\*RELT 268 or 373.  
 NOTE: C is the lowest acceptable grade.

**PRE-SURGEON'S ASSISTANT**

The surgeon's assistant is qualified to assist the surgeon in his patient care activities. Functioning under the direction of the surgeon, the surgeon's assistant is capable of obtaining accurate medical history and physical examination data, carrying out preoperative procedures to prepare the patient for surgery, assisting the surgeon during operations, participating in the care and evaluation of the patient in the postoperative period, assisting in the management of the traumatized patient, and caring for minor injuries. Surgeon's assistants may be involved with patients in any medical setting for which the surgeon is responsible including the operating room, recover room, intensive care unit, and the surgeon's office.

**Adviser: Stephen A. Nyirady**

(Program meets admission requirements for University of Alabama at Birmingham)

(Curriculum can be modified to meet requirements of other schools)

Area A ENGL 101-102; MATH 120

Area B RELB, RELT, 6 hours

Area C HIST, PLSC, 6 hours

Area D SPCH 135; 6 hours of literature; 3 hours of Lang/Lit/Fine Arts

Area E BIOL 101-102, 151-152, 330; CHEM 151-152

Area F PSYC, SOCI, 6 hours

Area G PEAC, 1 hour; Creative or Practical Skills, 2 hours

Electives to make a total of 64 hours. Recommended: Statistics, Cell Biology, Genetics, Histology

Work or volunteer service in a health care setting is highly recommended.

**Typical Sequence of Courses for  
A.S. PRE-SURGEON'S ASSISTANT**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BIOL 101-102	Anatomy & Physiology	3	3	BIOL 330	General Microbiology		4
BIOL 151-152	General Biology	4	4	CHEM 151-152	General Chemistry	4	4
ENGL 101-102	College Composition	3	3	MATH 120	College Algebra	3	
	Area C, History/Pol Sci	3	3	SPCH 135	Intro to Public Spkg		3
	Area F-1, Behav Sci		3		Area B, Religion	3	3
	Area D, Forgn Lang/ Fine Arts		3		Area D, Literature	3	3
	Area G-1/2, Creative/ Practical		$\frac{1}{17}$		Area F-1, Behav Sci	3	
			$\frac{1}{17}$		Area G-3, Rec Skills	$\frac{1}{17}$	$\frac{1}{17}$

# ART

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Chair: Robert Garren

Adjunct Faculty: John Cline, John Petticord

Basic to the philosophy of the Department of Art is the provision for the quality of environment most conducive to spiritual, aesthetic, and technical growth. The instructors desire to help all students become aware of their options in the field of art and to prepare them systematically to meet the needs of their respective choices, whether they are oriented commercially or aesthetically.

**Minor:** Eighteen hours including courses ART 104-105, 109, 110, 344, with not less than six hours in upper division courses.

## STUDIO ART

**ART 104-105. Beginning Drawing I, II (G-1) 2,2 hours**

An introductory course in drawing, composition, and design. Emphasis on the basic art elements and their functions in composition using various media. (Fall, Spring)

**ART 109. Publications Design (G-1) 3 hours**

Emphasis on the design and layout of newspapers, magazines, brochures, and advertisements. Creative use of illustrations and typographical elements to enhance the communicative potential of the print media.

**ART 110. Design Principles (G-1) 3 hours**

Problems in two and three-dimensional art, dealing with line, shape, form, color, and texture. (Spring)

**ART 221-222. Painting I, II 3,3 hours**

Prerequisite: ART 104-105 or permission of instructor.

A course designed to give the student experience in using painting materials applied to compositional organizations. May be repeated for credit. (Fall, Spring)

**ART 230. Introduction to Art Experiences 2 hours**

A course designed to give students hands-on experience with a variety of art media and materials. Study will be given to how artists use media in their expression of design and composition. (Spring)

**ART 235. Ceramics (G-1) 3 hours**

Fundamentals of the preparation and use of clay. Methods of fabrication from hand building to wheel-thrown wares, chemistry and application of glazes, and stacking and firing of kilns. May be repeated for credit. A \$20 fee is applied toward necessary supplies. (Fall)

**ART 295/495. Directed Study (W)****1-3 hours**

For students electing to take ART 295, permission of the teacher must be obtained. ART 495 is for majors and minors only.

The course is designed for students who wish directed study or for a group of students who wish a special course not taught under the regular class offering. Students taking the class as directed study may choose from art history, ceramics, design, drawing, painting, printmaking, and sculpture. (Students must have had maximum classes offered in area.) This course also includes credit offered by the Art Department on directed study tours. May be repeated for credit up to four times. Writing emphasis for ART 495 only.

**ART HISTORY****ART 218/318. Art Appreciation (D-3) (W)****3 hours**

Lecture and travel seminar. One class is offered in the fall semester, with two hours per week lecture, and the week of Thanksgiving spent in and New York City visiting major art museums. When offered in the first summer session, there will be one week of two-hour lectures and two weeks of travel and museum visits. There is an additional charge for travel. Students will be required to write a summary paper. Students taking the class for upper-division credit will be required to write a research paper.

**ART 344. History of Art (D-3) (W)****3 hours**

A study of the arts of western civilization from antiquity to the mid-1800's with an emphasis on pivotal figures in art history. (Fall)

**ART 345. Contemporary Art (D-3) (W)****3 hours**

Nineteenth- and twentieth-century developments in European and American arts. (Spring)

**(D-3), (G-1), (W)** See pages 52-56 for explanation of General Education requirements.

# BEHAVIORAL SCIENCE

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Chair: Ed Lamb  
Faculty: Terrie Ruff, Larry Williams  
Adjunct Faculty: Sherri Craig, Ellen Gilbert, Judie Port

The Behavioral Science faculty fully support the educational philosophy and objectives of Southern College. More specifically, this faculty embraces the following beliefs:

- (1) God is not only the Creator and Sustainer of all life, but also the ultimate Source of all knowledge.
- (2) Man is created in the image of God, and possesses harmonious physical, mental, spiritual, and social attributes.
- (3) A loving God seeks to restore His image in humanity, thus preparing them for personal fellowship with Himself.

We understand a redemptive education must focus on the growth of the whole person. The Behavioral Science faculty commits itself, therefore, to achieving the following objectives:

## *Spiritual*

Behavioral Sciences majors will acquire an understanding of the basic beliefs and values of Christianity as presented by the Seventh-day Adventist Church. We, as their teachers, will provide class devotionals, Christian-service applications, and the encouragement for them to commit themselves to such ideals.

## *Intellectual*

Those studying Behavioral Science at this college will perceive themselves as Christian scholars beginning a lifelong pursuit of knowledge. We have designed course-related activities and investigations to aid them in achieving intellectual and career goals, and in acquiring the necessary tools for future learning. The Behavioral Science curriculum is structured so as to encourage critical thinking, perceptive discussion, intellectual curiosity, and cultural awareness.

## *Social*

Behavioral Science students are expected to develop positive interpersonal skills, communication techniques, and decision-making approaches. The teachers in this program strongly emphasize the attitudes of acceptance, caring, patience, and service.

*Physical*

Students in Behavioral Science are encouraged to develop a holistic view of mankind in appreciation for the interactive nature of our physical, mental, social, and spiritual being. They are expected to establish balanced programs of exercise, rest, diet, study, work, and recreation. The faculty promotes such positive values and practices through example and instruction.

Students wishing to prepare for graduate study in community and/or family counseling, law, personnel work, and sociology of the family should consider a Behavioral Science major with a Family Studies emphasis. The Bachelor of Science in Social Work (BSW) is offered for those students seeking preparation for entry-level generalists baccalaureate practice positions. To achieve a complete preparation in these fields, however, the student is encouraged to consider further training at the graduate level.

**PROGRAMS IN BEHAVIORAL SCIENCE**

**Major (B.S., Family Studies Emphasis):** Forty-five hours, including PSYC 124, 128, 233, 315; SOCI 125, 201, 223, 424, 495, 349, 365; SOCW 211, 212, 497. Cognate requirements: CPTR 105, CPTR 106, CPTR 107; MATH 215; SPCH 135 or 136; three hours in Biology. Remaining course work will normally be chosen from the following courses: PSYC 377; SOCW 375.

Typical Sequence of Courses for  
**B.S. BEHAVIORAL SCIENCE**  
 (Family Studies Emphasis)

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	ECON 213	Survey of Economics	3	
PSYC 124	Intro to Psychology		3	SOCI 201	Parenting	3	
PSYC 128	Develop Psychology		3	SOCI 223	Marriage & Family		2
SOCI 125	Intro to Sociology	3		SOCI 233	Human Sexuality		3
SOCW 211	Intro to Soc Work	3		SOCW 212	Social Welfare Insts		3
	Area G, Act Skills	2	1		Area D-4 Speech	2	
	Area B, Religion	3			Area B, Religion	3	
	Area E-1, Biology		3		Area C-1, History	3	3
	Area A-2, Math		0-3		Area D, Lang/Lit		
	Minor or Electives	<u>1</u>	<u>3-0</u>		Fine Arts		6
		15	16		Electives	<u>3</u>	<u>17</u>
						17	17

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
MATH 215	Statistics	3		SOCW 497	Research Methods	3	
PSYC 315	Abnormal Psych	3		SOCI 349	Aging & Society	3	
SOCI 365	Family Relations	3		SOCI 424	Contemp Social Prob		3
SOCI 495	Directed Study	1			Area B, UD Religion	3	
	Area B, Religion	3			Area G, Act Skills	2	
	Area D, Lang/Lit				Minor or Electives	4	5
	Fine Arts	4			PSYC & SOCW Elect	<u>15</u>	<u>6</u>
	Area E, Chem/Phya/						<u>15 14</u>
	Earth Science	3					
	Area G-3, Recreation	1					
	Minor or Electives	<u>5</u>	<u>4</u>				
		15	15				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

A student contemplating graduate study should take as many courses as possible in the area of his/her emphasis.

**Major (B.S.W., Social Work):** Forty-five hours including SOCW 211, 212, 213, 313, 314, 315, 424, 434, 435, 436, 497; PSYC 124, 128; SOCI 125. Cognate requirements: CPTR 105, CPTR 106, CPTR 107; PLSC 254 or ECON 213; MATH 215; RELT 373; SPCH 135 or 136; any human biology.

Typical Sequence of Courses for  
**B.S.W. SOCIAL WORK**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	ECON 213	Survey of Economics	3	
PSYC 124	Intro to Psychology		3	SOCW 212	Social Welfare Insts		3
PSYC 128	Develop Psychology	3		SOCW 213	Interviewing Skills	1	
SOCI 125	Intro to Sociology	3			Area D-4, Speech	3	
SOCW 211	Intro to Social Work	3			Area G, Skills		2
	Area B, Religion	3			Area E-1, Biology		3
	Area A-2, Math		0-3		Area B, Religion	3	
	Area G, Skills		2		Area C-1, History	3	3
	Electives		<u>8-5</u>		Area D, Lang/Lit/		
		<u>15</u>	<u>16</u>		Fine Arts		3
					Electives	<u>2</u>	<u>2</u>
						15	16



YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
MATH 215	Statistics	3		SOCW 424	Contemp Soc Problems 3		
SOCW 313	HBSE	4		SOCW 434	Soc Welf Issues & Pol	3	
SOCW 314	Social Work Meth I	3		SOCW 435-436	Practicum I, II	4	4
SOCW 315	Social Work Meth II		3	SOCW	Elective	1	
SOCW 497	Research Methods		3		Area G-3, Recreation	1	
	Area B, Religion		3		Area G, Skills		1
	Area D, Lang/Lit				Area B, UD Religion	3	
	Fine Arts		3		Elective	1	10
	Area E, Nat Science		3			16	15
	Elective, Social Work		3				
	Elective		4				
		16	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Minor--Behavioral Science.** Eighteen hours selected from any Behavioral Science areas and including PSYC 124, SOCW 211, and SOCI 125, with a minimum of six hours of upper division Behavioral Science classes.

**Minor--Sociology.** Eighteen hours including SOCI 125, 365, and 424.

### SOCIAL WORK

**SOCW 211. Introduction to Social Work (F-1) 3 hours**

An introduction to the profession of social work, its historical roots, its values, and its fields of practice.

**SOCW 212. Social Welfare as an Institution (F-1) 3 hours**

Social welfare systems are viewed from both historical and philosophical perspectives. The role of the Seventh-day Adventist Church in meeting human need is also examined. Not open to students who have taken SOCW 221.

**SOCW 213. Interviewing Skills 1 hour**

Focuses on the development of interviewing and communication skills. Course is experientially based.

**SOCW 233. Human Sexuality (F-1 or F-2) 3 hours**

See SOCI 233 for course description.

**SOCW 313. Human Behavior and the Social Environment 4 hours**

Prerequisites: BIOL 101; SOCI 125; PSYC 124, 128; SOCW 212 or permission of instructor.

A study of the interaction between human behavior and the social environment. Relevant concepts from the behavioral sciences will be reviewed to provide students with a holistic view of human behavior. Includes such topics as systems theory, roles, reference groups, and social stratification. To be taken prior to or concurrently with SOCW 314.

**SOCW 314. Social Work Methods I (W) 3 hours**

Prerequisite: SOCW 212 or permission of instructor.

Provides students with theoretical framework for generalists social work practice. Topics include the establishment of relationship, assessment, contracts, intervention, utilization of resources, social work values and ethics. Work with individuals and families is emphasized in the first semester of a two-semester sequence.

**SOCW 315. Social Work Methods II (W) 3 hours**

Prerequisite: SOCW 314 or permission of instructor.

A continuation of SOCW 314. The primary focus is on working with small groups and the community. Public policy development and implementation are also studied.

**SOCW 349. Aging and Society (W) 3 hours**

See SOCI 349 for course description.

**SOCW 374. Criminology 3 hours**

See SOCI 374 for course description.

**SOCW 375. Introduction to Family Intervention (F-1) 3 hours**

An introduction to the various theoretical orientations of family intervention. The family is viewed as a unit, with focus on programs and crisis techniques designed to maintain and re-establish family equilibrium.

**SOCW 424. Contemporary Social Problems (F-1) 3 hours**

See SOCI 424 for course description.

**SOCW 434. Social Welfare Issues and Policies 3 hours**

A study of contemporary issues and policies that influence the delivery of social services. Not open to students who have taken SOCW 222.

**SOCW 435. Social Work Practicum I 4 hours**

Prerequisite: SOCW 314.

This course provides opportunity for students to apply practice theory to develop skills for generalists social work practice. Through participation in the social service delivery system, the student becomes familiar with agency structures, functions, and programs. A minimum of 200 hours will be spent working in an agency setting for each four hours of course work. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**SOCW 436. Social Work Practicum II** **4 hours**

This course builds on the experiences of the first semester practicum and progresses to more difficult and varied tasks. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**SOCW 465. Topics in Social Work (F-1)** **1-3 hours**

Study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, sex roles, income maintenance, social work ethics, etc. This course can be repeated once for credit.

**SOCW 295/495. Directed Study** **1-3 hours**

Prerequisite: SOCW 221 or permission of the instructor.  
A study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, income maintenance, values and ethics of social work practice, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit. (Fall)

**SOCW 296/496. Study Tour (F-1)** **1-3 hours**

A tour is scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). A European tour to study social policy and selected culture is taken every other summer or as needed. An additional fee is required to cover travel expenses. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**SOCW 497. Research Methods (W)** **3 hours**

Prerequisite: MATH 215.  
An introduction to common research design and methodology. Descriptive and relational designs are examined. A semester research proposal and completed project is expected of each student. (Fall)

**SOCIOLOGY**

**SOCI 125. Introduction to Sociology (F-1)** **3 hours**

An objective approach to the analysis and understanding of the social world. Consideration is given to the dynamic nature of American society and social institutions. Emphasis is placed on the study of social groups including the family, its history and current place in society. (Fall, Spring, Summer)

**SOCI 201. Parenting (F-2)** **3 hours**

A study of the family system in preparation for parenthood and the dynamics of parent-child interaction. Attention is given to family planning, the childbirth experience, child development, techniques for developing close relationships and communication between parent and child, understanding and relating to children's individuality, common child rearing problems, and methods of modifying behavior.

**SOCI 223. Marriage and the Family (F-2)** **2 hours**

A course in the ethics of human relationships, including the place of the family in society and the Christ-centered approach to marital and familial conflicts. (Fall, Spring)

**SOCI 224. Social Psychology (F-1) 3 hours**

See PSYC 224 for course description.

**SOCI 233. Human Sexuality (F-1 or 2) 3 hours**

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting.

**SOCI 349. Aging and Society (F-1) (W) 3 hours**

The course emphasizes the reciprocal impact of societal attitudes on the process of aging and the increasing influence of "mature citizens" in contemporary society. Historical, demographic, and future trends are explored. A balance between the theoretical and the applied is sought. (Spring)

**SOCI 356. Natives and Strangers (F-1) (W) 3 hours**

See HIST 356 for course description.

**SOCI 365. Family Relations (F-2) 3 hours**

A sociological analysis of family structures and functions. Attention will be given to courtship, family organization and interaction, family disorganization and reorganization, and the post-parental family. Emphasis will be given to findings of recent family studies. (Spring)

**SOCI 374. Criminology (F-1) 3 hours**

This course emphasizes the scientific study of crime as a social phenomenon, of criminals, and of penal treatment. The relationship of law and crime to other trends in the social order. Research in prevention and treatment of crime. (Fall, odd years)

**SOCI 424. Contemporary Social Problems (F-1) 3 hours**

Attention is given to the major forces shaping cultural and subcultural changes today. Changes are particularly viewed as to their effectiveness in bringing about group and mass adjustment. (Spring)

**SOCI 295/495. Directed Study (F-1) 1-3 hours**

Prerequisite: SOCI 125 or permission of the instructor.

Study of special topics pertinent to the area of sociology. Content will vary among such topics as the sociology of women, social conflict and change, Black America, the sociology of education, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit. (Spring)

**SOCI 296/496. Study Tour (F-1) 1-3 hours**

A tour is scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). A European tour to study social policy and selected culture is taken every other summer or as needed. An additional fee is required to cover travel expenses.

(F-1), (F-2), (W) See pages 52-56 for explanation of General Education requirements.

# BIOLOGY

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Chair: Stephen A. Nyirady

Faculty: John Azevedo, Joyce Azevedo, David Ekkens, William Hayes, Duane Houck

Adjunct Faculty: Edgar Grundset

Summer Faculty: Laura Nyirady

The study of Biology constitutes one of the most exciting and important fields of scientific investigation, since it provides a better understanding of ourselves and the living things around us. Even the casual observer of Biology who pauses long enough to take a course may derive a lifetime of pleasure and fulfillment from a hobby such as bird watching, shell collecting, or wildflower photography.

More importantly, a major in Biology is an excellent starting point for numerous careers which are both rewarding and challenging. With a B.S. degree in Biology, one may pursue graduate study leading to research in the basic sciences (anatomy, physiology, ecology, microbiology, cytology, etc.), teaching at the college or graduate level, or employment in industry or government. The B.A. degree is the degree of choice in preparation for high-school teaching, medicine, dentistry, optometry, careers in wildlife, forestry or zoo management, health education, public health, biostatistics, epidemiology, and environmental health, to name a few.

The Biology Department makes available a number of experiences, both curricular and extracurricular, to enrich its students' academic programs. Being within relatively easy access to a number of major biome types, it offers courses which include field experiences in such places as the Bahamas, Smoky Mountains, and the Okefenokee Swamp. The newly constructed Tennessee Aquarium provides additional learning resources. The department is also affiliated with two biological field stations (see pages 76 and 77).

Extracurricular opportunities include membership in the *Beta Beta Beta* national biological honor society, a yearly lecture series on natural history and research topics (see page 75), as well as a pre-medical preceptorship program (see page 290).

## ASSESSMENT OF MAJORS

In order to help evaluate its teaching effectiveness and the academic achievements of its graduates, all seniors are required to take the ETS *Major Field Achievement Test in Biology* during their final semester. The results of these exams are used by the department staff to evaluate class offerings as well as program requirements.

**DEGREES IN BIOLOGY****Core Courses:**

BIOL 151-152	General Biology
BIOL 316	Genetics
BIOL 412	Cell and Molecular Biology
BIOL 424	Issues in Natural Science and Religion
BIOL 485	Biology Seminar

**Areas:***Botany:*

BIOL 408	Flowering Plants and Ferns
BIOL 409	Smoky Mountain Flora
BIOL 419	Plant Physiology

*Ecology:*

BIOL 226	Environmental Conservation
BIOL 317	Ecology
	Marine Biology Courses

*Zoology Field Courses:*

BIOL 312	Vertebrate Natural History
BIOL 314	Ornithology
BIOL 319	Herpetology
BIOL 320	Entomology
BIOL 411	Mammalogy

*Microbiology:*

BIOL 315	Parasitology
BIOL 330	General Microbiology
BIOL 340	Immunology

*Basic Zoology:*

BIOL 313	Embryology
BIOL 415	Comparative Anatomy
BIOL 417	Animal Histology
BIOL 418	Animal Physiology

**Major (B.A.):** Thirty-two hours including Biology core of 20 hours, plus one course from each of four areas. Cognate requirements: CHEM 151-152 General Chemistry, CHEM 311-314 Organic Chemistry; MATH 120 College Algebra; SPCH 135 Introduction to Public Speaking; and three hours of computer courses. MATH 121 Trigonometry, PHYS 211-212 and 213-214 General Physics and General Physics Laboratory, are highly desirable. A minor in Chemistry is recommended. All seniors are required to take the Educational Testing Service Major Field Achievement Test in Biology before graduating.

Typical Sequence of Courses for  
**B.A. BIOLOGY**  
 (Chemistry Minor Recommended)

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
BIOL 151-152	General Biology	4	4	BIOL 316	Genetics		4
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
MATH 120	College Algebra	3			Area G-2, Comp Sci	3	
MATH 121	Trigonometry		2		Area G-3, Rec Skills		1
RELB 125	Teachings of Jesus	3			Area D, Lit/Fine Arts/ Speech	3	
RELT 138	Adventist Heritage		3		Area B, Religion		3
	Area F-2,3 Fam/Hlth Sci	2			Biology Electives	3	3/4
	Area G, Skills	1	1		Electives	2	
	Electives		3			15	15
		16	16				(16)

<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
BIOL 412	Cell & Molecular Bio	4		BIOL 424	Issues of Nat Sci & Religion	3	
CHEM 311-312	Organic Chemistry	3	3		Biology Seminar	1	
CHEM 313-314	Organic Chem Lab	1	1	BIOL 485	Biochemistry		4
PHYS 211-212	General Physics	3	3	CHEM 323	Biology Elective	3	
PHYS 213-214	Gen Physics Lab	1	1		Area B, UD Religion		3
	Biology Elective		3		Area C-1, History	3	3
	Area D-1, Forgn Lang	3	3		Area C-2, Political Science/Econ	3	
	Electives	1	1		Area F-1, Beh Sci		3
		16	15		Electives	3	3
						16	16

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially the requirements for make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major (B.S.):** Forty-one hours including Biology core of 20 hours, plus one course from each of the five areas. Cognate requirements: CHEM 151-152 General Chemistry, CHEM 311-314 Organic Chemistry; MATH 120 College Algebra, MATH 121 Trigonometry, MATH 215 Statistics; PHYS 211-212 and 213-214 General Physics; SPCH 135 Introduction to Public Speaking, and three hours of computer courses. BIOL 397 Introduction to Research and BIOL 497 Research in Biology, are highly recommended. All seniors are required to take the Educational Testing Service Major Field Achievement Test in Biology before graduating.

Typical Sequence of Courses for  
**B.S. BIOLOGY**

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
BIOL 151-152	General Biology	4	4	BIOL 316	Genetics		4
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
MATH 120	College Algebra	3		HIST 154,155	American History		
MATH 121	Trigonometry		2		OR	3	3
RELB 125	Teachings of Jesus	3		HIST 174,175	Survey of Civ		
	Area F-1, Beh Sci		3	MATH 215	Statistics	3	
	Area F-2,3 Fam/ Hlth Science	2			Biology Electives	3	3
	Area G-3, Rec Skills		1		Area G-1, Creat Skls	2	
	Area D, Lang/Lit/ Fine Arts		3		Area B, Religion		3
		15	16			15	17

# BIOLOGY

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
BIOL 412	Cell & Molecular Bio	4		BIOL 424	Issues of Nat Sci & Religion		3
CHEM 311-312	Organic Chemistry	3	3	BIOL 485	Biology Seminar		1
CHEM 313-314	Organic Chem Lab	1	1		Biology Electives		6 6/7
PHYS 211-212	General Physics	3	3		Area D-2, Lang/Lit		
PHYS 213-214	General Phys Lab	1	1		Fine Arts		3
	Area D, Lang/Lit/ Fine Arts		3		Area C-2, Pol Sci/Econ		3
	Biology Electives		6		Area G-2, Comp Sci		3
	Area B, Religion		3		Area B, UD Religion Electives		3
		3	17				16 15
							(16)

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements for make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Minor:** Eighteen hours including BIOL 151-152 General Biology. A minimum of six hours must be in upper division.

**Certification to Teach:** Secondary certification in Biology requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 158. Also required are specific biology classes as indicated in the following sequence of courses.

## Typical Sequence of Courses B.A. Biology—Teacher Certification 7-12

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BIOL 151-152	General Biology	4	4	BIOL 226	Environ Conservation		3
EDUC 135	Intro to Education	3		BIOL 316	Genetics		4
ENGL 101-102	College Composition	3	3	BIOL 403	Flower Plants & Ferns	3	
MATH 120	College Algebra	3		CHEM 151-152	General Chemistry	4	4
RELB 125	Teachings of Jesus	3		EDUC 217	Psych Found of Educ	2	
RELT 138	Adventist Heritage		3	EDUC 240	Except Child & Youth		2
	Area F-1, Behav Sci		3	RELT 225	Christian Beliefs		3
	Area F-2,3 Fam/Hlth Sci		2		Area D, Lit/F Arts/Spch		3
	Area G, Skills		1		Area G-1 or 3, Skills		1
		16	16		Area G-2, Comp Sci		3
					Area G-3, Rec Skills		1
						16	17
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
BIOL	Zoology Field Course	3		BIOL 412	Cell & Molecular Bio		4
BIOL 330	General Microbiology		4	BIOL 424	Issues in Nat Sci & Rel		3
BIOL 418-419	Plant or Animal Physiol		3	BIOL 485	Biology Seminar		1
CHEM 311-312	Organic Chemistry	3	3	CHEM 325	Biochemistry		4
CHEM 313-314	Organic Chem Lab	1	1	EDUC 421	Behavior Management	2	
EDUC 250	Technology in Ed		2	EDUC 427	Current Issues in Ed	2	
EDUC 356	Tests and Measure	2		EDUC 432	Reading in Content		2
ERSC 105-106	Earth Science	4		EDUC 438	Curric & Content Mthds		2
	Area B, UD Religion		3	EDUC 462	Organization & Ldrshp		1
	Area D, Lit/F Arts/ Speech		3	MATH 215	Statistics		3
		16	16		Area C-1, History		3
					Area C-2, Pol Sci/Econ		3
						17	16
YEAR 5							
EDUC 468	Enhanced St. Tch 7-12	8					



## NON-MAJOR, NON-MINOR COURSES

**BIOL 101-102. Anatomy and Physiology (E-1) 3,3 hours**

A study of the fundamentals of human anatomy and physiology. The first semester covers basic cytology, histology, the musculoskeletal, integumentary, nervous, and endocrine systems. The remainder of the body systems are studied the second semester. Two lectures and one three-hour laboratory period each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

**BIOL 103. Principles of Biology (E-1) 3 hours**

This is a basic general education biology course designed to give the student a modern treatment of the fundamental processes and principles of plant and animal life. Three lectures each week. Does not apply on a major or minor in Biology. (Fall, Spring)

**BIOL 104. Principles of Biology Lab (E-1) 1 hour**

Prerequisites: Previous or concurrent enrollment in BIOL 103.

Laboratory exercises designed to illustrate the principles learned in BIOL 103. Three hours of laboratory each week. Does not apply on a major or minor in Biology. (Fall, Spring)

**BIOL 225. Basic Microbiology (E-1) 4 hours**

A study of the principles of microbiology, disinfection, sterilization, elementary immunology, and microorganisms emphasizing their relationship to health and disease. Three lectures and two one and one-half hour laboratory periods each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

## CORE COURSES

**BIOL 151-152. General Biology (E-1) 4,4 hours**

This is a rigorous introductory course in Biology primarily for Biology majors, minors, and pre-professional students. The course is designed to give the student a solid foundation in the fundamental processes of plant and animal life. It is prerequisite to most all other Biology major courses. Three lectures and one three-hour laboratory period each week. (Fall, Spring)

**BIOL 316. Genetics 4 hours**

Prerequisite: BIOL 225 or 151, or consent of instructor.

A study of heredity as related to man, domestic plants and animals and an investigation of gene structure and function. Three lectures and one three-hour laboratory period each week. (Spring)

**BIOL 412. Cell and Molecular Biology 4 hours**

Prerequisites: BIOL 151-152; BIOL 316.

This course, designed for advanced Biology and Chemistry majors, deals primarily with cell structure and function. Building on cellular principles learned in BIOL 151-152, the student is exposed to methods of cellular research while learning about the appearance and operation of cellular organelles. The exciting details of cell integration and control provide the framework for this interdisciplinary study. Two lectures and one three-hour laboratory period each week. (Fall)

## BIOLOGY

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### **BIOL 424. Issues of Natural Science and Religion (E-1) (W) 3 hours**

Prerequisite: Senior standing.

A study of the philosophical basis of modern natural science as it relates to current issues in origins, biotechnology, bioethics, and environmental responsibility. Special attention is given to Christian perspectives of the issues discussed. Credit can be applied toward either Biology or Religion. Three lectures each week. (Fall)

### **BIOL 485. Biology Seminar (W)**

**1 hour**

Prerequisite: Biology major or minor with senior standing.

Reports are made on some specific problem in the field of Biology and on current literature in the field. To be taken in the senior year or with approval of Department Chair. (Fall, Spring)

## BOTANY

### **BIOL 408. Flowering Plants and Ferns**

**3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

This field study of trees, flowering plants and ferns emphasizes species identification with the aid of botanical keys, recognition of plant families and noting habitats where various species occur. Other taxonomic methods will be introduced. Students will prepare a collection of herbarium specimens. Two lectures and one field trip or three-hour laboratory period each week. (Fall—odd years; Summer—even years)

### **BIOL 409. Smoky Mountain Flora**

**3 hours**

Prerequisite: BIOL 152 or consent of instructor.

A field study of the wildflowers, shrubs and trees in the Great Smoky Mountain National Park, which contains the world's finest examples of temperate deciduous forest. Plants are identified by means of botanical keys, and observation lists are kept. Special attention is given to the different forest types and their associated plants. Involves a 10-day to three-week camping study experience. Field trips daily. (Summer, odd years)

### **BIOL 419. Plant Physiology**

**3 hours**

Prerequisite: BIOL 151-152 and CHEM 151-152 or consent of instructor.

A study of the functions of seed plants. Topics covered include water relations, mineral nutrition, photosynthesis, transpiration, translocation, respiration, and growth. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

## ECOLOGY

### **BIOL 226. Environmental Conservation (E-1)**

**3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

This very relevant course introduces the student to the very complex interlocking environmental problems facing us today. Beginning with basic ecological principles, the course goes on to examine population dynamics, energy utilization, resource consumption, the various forms of pollution, and conservation methods to preserve our natural resources, natural areas, and native species. On field trips we will evaluate how efficiently our natural resources are being monitored, utilized, and conserved. Two lectures and one field trip or three-hour laboratory period each week. (Spring)

**BIOL 250. Introduction to Tropical Marine Biology 3 hours**

A study of the major invertebrates and fish of the tropical coral reef and seashores. Emphasis is placed on the life habits of the organisms and their ecological niches. Habitats studied are coral reefs, rocky shores, sandy beaches, thalassia beds and mangrove swamps. Involves two weeks of on-campus classwork and 7-10 day field laboratory experience in the Bahamas. There is an additional charge for the Bahamas trip. (Summers)

**BIOL 317. Ecology 3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

Ecology is a study of the interrelationships of plants, animals and their environment. This course will examine these interactions in the context of energy flow, nutrient cycles, limiting factors, succession and population dynamics. Field work will introduce various ecological sampling techniques and the student will participate in ecological analysis of various local communities as well as extended field trips. Two lectures and one field trip or three-hour laboratory period each week. (Fall)

**ZOOLOGY FIELD COURSES****BIOL 312. Vertebrate Natural History 3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

Natural history of the vertebrate classes including ecology, physiology, behavior, classification and identification, with emphasis on local species. Two lectures and one three-hour laboratory each week. An extended weekend field trip will be required as part of laboratory credit. (Fall, odd years)

**BIOL 314. Ornithology (E-1) 3 hours**

A systematic study of bird life with special emphasis on external features, taxonomy, nesting and feeding habits, flight and migratory patterns. Two lectures and one laboratory period each week. An extended field trip, which applies toward laboratory credit, is planned during spring vacation. There is an additional charge for the trip. (Spring)

**BIOL 319. Herpetology 3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

Natural history, ecology, physiology, behavior, classification and identification of amphibians and reptiles, with emphasis on local species. Two lectures and one three-hour laboratory each week. An extended field trip will be required as part of laboratory credit. (Fall, even years)

**BIOL 320. Entomology 3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

A systematic study of the insects of the world considering anatomy, physiology, behavior and relation to humans. In the laboratory, emphasis will be placed on identifying local insects and a representative collection will be turned in. Short field trips are planned as part of the laboratory work. Two lectures and one three-hour laboratory period each week. (Fall, odd years)

- BIOL 411. Mammalogy** **3 hours**  
Prerequisites: BIOL 151-152 or consent of instructor.  
A study of the mammals of the world, with emphasis on North America. Includes classroom and field study of systematics, distribution, behavior and ecology. A small collection will be required in the laboratory. Two lectures and one three-hour laboratory each week. (Fall, even years)

## MICROBIOLOGY

- BIOL 315. Parasitology (W)** **3 hours**  
Prerequisite: BIOL 151-152 or consent of instructor.  
A general survey of the more important parasites of man and domestic animals. Two lectures and one three-hour laboratory period each week. (Spring, even years)
- BIOL 330. General Microbiology** **4 hours**  
Prerequisite: BIOL 151-152 or consent of instructor.  
A general study of bacteria, yeasts, molds and viruses, considering their morphology, physiology, genetics and methods of control. Study will be given to immunology topics: antigen-antibody properties, host-antigen interactions, humoral and cellular immune systems. The importance of microorganisms in environmental and applied fields will be considered. Three lectures and one three-hour laboratory period each week. (Spring)

- BIOL 340. Immunology** **2 hours**  
Prerequisite: BIOL 151-152 or consent of instructor.  
A study of the basic aspects of the human immune system including topics such as antigen and antibody structure and reactions, humoral and cell mediated immunity, hypersensitivity, immune disease and transplantation immunology. Two lectures each week. (Spring)

## BASIC ZOOLOGY

- BIOL 313. Embryology** **3 hours**  
Prerequisite: BIOL 151-152 or consent of instructor.  
An introduction to the development of the vertebrate animal with emphasis on the development of the chick. Two lectures and one three-hour laboratory period each week. (Fall)
- BIOL 415. Comparative Anatomy** **3 hours**  
Prerequisite: BIOL 151-152 or consent of instructor.  
A comparison of the anatomy of the various organ systems of vertebrates. The dogfish shark, mud puppy, cat, and/or fetal pig are used for laboratory study. Two lectures and one three-hour laboratory period each week. (Spring)
- BIOL 417. Animal Histology** **3 hours**  
Prerequisite: BIOL 151-152 or consent of instructor.  
A descriptive study of normal tissues, primarily those of man. The microscopic identification and characteristics of stained sections are emphasized in the laboratory. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

**BIOL 418. Animal Physiology****3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

Functional processes used by animals in adjusting to their external environment and controlling their internal environment. Laboratories involve analysis of functions of major organ systems. Two lectures and one three-hour laboratory period each week. (Spring, even years)

**SPECIAL COURSES****BIOL 365. Topics in Biology****1-3 hours**

Formal coursework designed to meet the needs or interests of students in specialty areas of Biology not covered in regular courses. May be repeated in different specialized areas.

**BIOL 295/495. Directed Study****1-3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

BIOL 495 open to Biology majors or minors only.

Designed for the individual student or group of students who wish to do independent study in an area of biology not listed in the regular offerings. Content and method of study must be arranged for prior to registration. This course may be repeated for credit. (Fall, Spring, Summer—on demand)

**BIOL 397. Introduction to Biological Research (W)****1 hour**

Prerequisite: BIOL 151-152 or consent of instructor.

An introduction to the principles of scientific research, including the function of the scientific method, literature searches, research techniques, writing of grant proposals, and how to publish results. (Fall)

**BIOL 497. Research in Biology (W)****1-2 hours**

Prerequisite: BIOL 397 or consent of instructor.

Individual research under the direction of members of the staff. Problems will be selected according to the interest and experience of the student. Prior to registration, students are urged to contact all biology staff members with respect to the choice of available research problems. This course should be taken not later than the first semester of the senior year. (Fall, Spring, Summer—on demand)

**EDUCATION****EDUC 438. Curriculum and Content Methods/Biology****2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction; planning, testing, and evaluating student performance; and the survey and evaluation of textbooks.

**ROSARIO BEACH  
MARINE BIOLOGICAL FIELD STATION**

The Rosario Beach Marine Station is a teaching and research facility operated by Walla Walla College in affiliation with Southern College and other Adventist colleges. Located seven miles south of Anacortes, Washington, the station occupies 40 acres of beach and timberland. In addition to some of the biology courses listed in this catalog, the following are among those taught during the summer at Rosario Beach:

**BIOL 200. Introduction to Marine Biology 3 hours**

An overview course designed to introduce general education students to the biology and ecology of the marine environment. Course not applicable to Biology majors.

**BIOL 460. Marine Ecology 3 hours**

Prerequisite: BIOL 151-152.

Study of interspecific, intraspecific, and community relationships demonstrated by marine organisms.

**BIOL 463. Marine Botany 3 hours**

Prerequisite: BIOL 151-152.

Systematic study of plants found in Puget Sound, with a survey of marine plants from other areas.

**BIOL 468. Comparative Physiology 3 hours**

Prerequisite: BIOL 151-152, BIOL 412.

Comparative study of the physiology and life processes of animals with emphasis on invertebrates.

**BIOL 475. Marine Invertebrates 3 hours**

Prerequisite: BIOL 151-152.

A description of selected groups of marine invertebrates. The course will involve extensive collection, classification, and study of the marine invertebrates of the Puget Sound.

**BIOL 516. Behavior of Marine Organisms 3 hours**

Prerequisites: BIOL 151-152 and Animal Behavior or Introduction to Psychology.

A study of intra- and interspecific behaviors of marine animals and their behavioral responses to the physical environment. The course involves laboratory experiences, field observation, and a research project.

**BIOL 417. Animal Histology 3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

A descriptive study of normal tissues, primarily those of man. The microscopic identification and characteristics of stained sections are emphasized in the laboratory. Two lectures and one three-hour laboratory period each week (Spring and Fall).

# BUSINESS AND OFFICE ADMINISTRATION

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**Chair:** Wayne Vandevere

**Faculty:** Herbert Coolidge, Joyce Cotham, Richard Erickson,  
David Haley, Cliff Olson, Dan Rozell, Vinita Sauder,  
Peg Smith

**Adjunct Faculty:** Daniel Gray, Richard J. Henry, Jr., Doug Malin

**Advisory Councils:**

**Accounting:** Richard Center, Rhonda Champion, Richard Green,  
Bo Just, Calvin Wiese

**Long-Term Health Care:** Glen Choban, Bob Gore, Dan Gray, Richard  
Henry, Douglas Malin, Jan Rushing, Ben Wygal

**Marketing:** Barry Anthony, Bud Cason, Danny Fall, Johnny Phillips

The courses and programs offered by the department are designed to prepare students for business-related careers with the church, government, industry, and in long-term health care and to train students for secretarial, office work, and office administration in the modern office.

The objectives of the department are:

1. To give the student a broad background of knowledge of the free enterprise system within a framework of moral and ethical guidelines.
2. To assist the student to develop a sound Christian philosophy toward our current economic environment and the ever-changing business world of the future.
3. To provide the student with a quality academic program with basic business skills required for initial job placement.
4. To encourage Seventh-day Adventist students to serve as workers and in positions of business leadership with organizations sponsored by this denomination.
5. To train office managers, administrative assistants, executive secretaries, and word processing operators and managers.
6. To provide the necessary academic background for entrance into most graduate degree programs in business.

The department offers a Bachelor of Business Administration degree (B.B.A.) with majors in Accounting, Management, Marketing, and Computer Information Systems and a Bachelor of Science degree (B.S.) with majors in Business Administration, Long-Term Health Care, and Office Administration.

For those who desire a two-year program, Associate of Science degrees (A.S.) are available in Accounting and Office Administration. A preprofessional degree in Health Information Administration is also available.

Students wishing to receive secondary teacher certification in Business Education must complete a baccalaureate degree and complete the professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 158.

### ASSESSMENT OF MAJORS

To help the graduates in Business and Office Administration to evaluate their academic progress and to aid the department in evaluating teaching effectiveness, students who major in business related fields will be required to:

1. Participate in the college-wide Sophomore testing program in general education.
2. Take the area test in business prepared by the Educational Testing Service (ETS) during the last semester of their academic program, and
3. Accounting majors who plan to enter public accounting will be evaluated by their performances on the National CPA exam.

### PROGRAMS IN BUSINESS AND OFFICE ADMINISTRATION

**B.B.A. Core Requirements:** The B.B.A. degree requires a basic core of business courses plus a major in Accounting, Management, Marketing, or Computer Information Systems.

Basic Core Course requirements are as follows: ACCT 221-222, 321; ECON 224, 225; BUAD 126, 128, 314, 315, 334, 339, 358, 488; BMKT 326; OFAD 315. Among the General Education requirements, the B.B.A. degree students must include SPCH 135; CPTR 106, 116; MATH 120, 215; a course in psychology. BUAD 315 and BMKT 326 are not required for the major in Computer Information Systems.

**Major—Accounting:** 23 hours plus the B.B.A. Core Requirements: ACCT 311-312, 316, 322, 417, 421; Electives in Accounting, 3 hours. Calculus I, MATH 181, is recommended for those who plan to pursue a graduate program in business.



**Typical Sequence of Courses for  
B.B.A. ACCOUNTING**

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
BUAD 128	Personal Finance		3	BUAD 334	Prin of Management	3	
CPTR 106	Intro to Spreadsheet	1		ECON 224,225	Prin of Economics	3	3
CPTR 116	Spreadsheet Application	2		SPCH 135	Intro to Public Spkg	3	3
ENGL 101-102	College Composition	3	3		Area B, Religion	3	
MATH 120	College Algebra	3			Area E, Nat Science		3
	Area B-1, Religion	3			Area D-2, Literature	3	
	Area F-1, Psychology		3		Area G-1/G-3, Skills	1	1
	Area C-1, History	3	3		Area P-2, Fam/Hlth Sci		2
	Area G-3, Rec Skills	1	1			16	15
		16	16				
<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ACCT 211-212	Inter Accounting	4	4	ACCT 316	Gov't Accounting		3
ACCT 322	Cost Accounting		3	ACCT 417	Auditing	3	
BUAD 339	Business Law		3	ACCT 421	Federal Income Taxes	3	
ACCT 321	Managerial Acct	3		BUAD 358	Legal, Ethical Env of Business		3
BMKT 326	Intro to Marketing	3		BUAD 488	Seminar in Bus Admin	1	
BUAD 315	Business Finance	3		OFAD 315	Bus Communications	3	
BUAD 314	Quant Meth-Bus Decis		3		Area B, UD Religion		3
MATH 215	Statistics	3			Area D-3, Fine Art App	3	
	Area B-2, Religion		3		Accounting Electives	3	2
		16	16		Area E, Nat Science		3
						15	15

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

For Accounting majors who wish to sit for the CPA examination in Tennessee or any other state that requires 150 semester hours to sit for the examination, the following courses are recommended in addition to the 124 hours for the BBA in Accounting degree (choose 26 hours that are not included in the 124 hours above):

ACCT 415	Advanced Accounting	3 hours
*ACCT 432	Auditing Applications	3 hours
*ACCT 422	Federal Income Taxes II	3 hours
ACCT 418,419	CPA Review Problems	6 hours
ACCT 443	Accounting Systems	3 hours
CPTR 131	Fundamentals of Programming	3 hours
CPTR 217	COBOL Programming Language	3 hours
ENGL 313	Expository Writing	3 hours
SPCH 136	Interpersonal Communication	3 hours
JOUR 425	Reporting in Special Areas	3 hours
ACCT 497	Accounting Internship	1-3 hours

\*These courses are required by the state of Tennessee as part of the 150 hours.

**Major—Management:** 21 hours plus the B.B.A. Core Requirements: BUAD 344, 353, 354, 414; Electives in ACCT, BUAD, BMKT, 9 hours.

### Typical Sequence of Courses for B.B.A. BUSINESS MANAGEMENT

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
BUAD 128	Personal Finance		3	BUAD 334	Prin of Management	3	
CPTR 106	Intro to Spreadsheet	1		ECON 224,225	Prin of Economics	3	3
CPTR 116	Spreadsheet Applications	2		SPCH 135	Intro to Public Spkg	3	3
ENGL 101-102	College Composition	3	3		Area B, Religion	3	
MATH 120	College Algebra	3			Area E, Nat Science	3	
	Area B-1, Religion	3			Area D-2, Literature	3	
	Area F-1, Psychology	3	3		Area G-3, Rec Skills	1	
	Area C-1, History	3	3		Area F-2, Fam/Health	<u>2</u>	
	Area G-1 or G-3, Skils	<u>1</u>	<u>1</u>			15	15
		16	16				
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 321	Mgmt Accounting	3		BUAD 353	Mgmt of Small Bus	3	
BMKT 326	Intro to Marketing	3		BUAD 354	Prin of Risk Mgmt	3	3
BUAD 315	Business Finance	3		BUAD 358	Legal, Eth Env of Bus	3	
BUAD 314	Quant Meth-Bus Decis	3		BUAD 414	Business Strategies	3	
BUAD 339	Business Law	3		BUAD 488	Seminar in Bus Admin	1	
BUAD 344	Human Resource Mgmt	3		OFAD 315	Bus Communications	3	
MATH 215	Statistics	3			Area B, UD Religion	3	
	Area B-2, Religion	3			Area D-3, Fine Art App	3	
	Area E, Nat Science	3			Electives in Business	<u>3</u>	<u>6</u>
	Electives	<u>3</u>	<u>1</u>			15	16
		15	16				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major—Marketing:** 21 hours plus the B.B.A. Core Requirements:  
BUAD 354; BMKT 327, 328, 423, 424, 425, 428.

### Typical Sequence of Courses for B.B.A. MARKETING

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
BUAD 128	Personal Finance		3	BMKT 326	Intro to Marketing	3	
CPTR 106	Intro to Spreadsheet	1		BUAD 334	Prin of Management	3	
CPTR 116	Spreadsheet Applica	2		ECON 224,225	Prin of Economics	3	3
ENGL 101-102	College Composition	3	3	SPCH 135	Intro to Public Spkg	3	3
MATH 120	College Algebra	3			Area B, Religion	3	
	Area B-1, Religion	3			Area D-2, Literature	3	
	Area F-1, Psychology	3	3		Area E, Nat Science	3	
	Area C-1, History	3	3		Area G-3, Rec Skills	<u>1</u>	
	Area G-1/G-3 Skills	<u>1</u>	<u>1</u>			15	16
		16	16				

## BUSINESS AND OFFICE ADMINISTRATION

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 321	Mangerial Acctg	3		BMKT 423	Promotional Strategy	3	
BMKT 327	Consumer Behavior	3		BMKT 424	Marketing Strategy		3
BMKT 328	Sales Management	3		BMKT 425	Marketing Research		3
BUAD 314	Quant Meth-Bus Decis		3	BMKT 428	Marketing Management		3
BUAD 339	Business Law		3	BUAD 315	Business Finance		3
BUAD 354	Prin of Risk Mgmt		3	BUAD 414	Business Strategies		3
BUAD 358	Legal, Eth Env of Bus		3		Area B, UD Religion		3
BUAD 488	Seminar in Bus Admin		1		Area D-3, Fine Art App		3
MATH 215	Statistics		3		Area F, Beh/Fam/ Hlth Sci		2
	Electives		3		Electives		2
	Area B-2, Religion		3				2
		15	16			3	2
						15	16

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major—Computer Information Systems:** the B.B.A. Core requirements plus CPTR 106, 116, 131-132, 217, 317, 318, 319, 324, 325, 326, 485; Cognates: MATH 120, 181, 215; SPCH 135; a psychology course.

### Typical Sequence of Courses for B.B.A. COMPUTER INFORMATION SYSTEMS

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
CPTR 106	Intro to Spreadsheet		1	BUAD 128	Personal Finance		3
CPTR 116	Spreadsheet Applica		2	CPTR 217	COBOL Programming	3	
CPTR 131	Fund of Prog I		3	CPTR 317	Intro to File Process		3
CPTR 132	Fund of Prog II		3	ECON 224,225	Prin of Economics	3	3
ENGL 101-102	College Composition		3	MATH 120	College Algebra		3
SPCH 135	Intro to Public Spkg		3		Area B, Religion		3
	Area B-1, Religion		3		Area D-3, Fine Arts		3
	Area C-1, History		3		Area G-3, Rec Skills		1
	Area G-1/G-3, Skills		1				16
		16	16			15	16
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 321	Cost & Mang Acct I		3	BUAD 358	Legal-Ethical Env of Business		3
BUAD 334	Prin of Management		3	BUAD 339	Business Law		3
BUAD 314	Quant Mthds-Bus Dec		3	CPTR 326	Systems Management		2
BUAD 488	Seminar in Bus Admin		1	CPTR 485	Computer Sci Seminar		1
CPTR 318	Data Structures		3	MATH 181	Calculus I		3
CPTR 319	Data Base Mgmt Systems		3	OFAD 315	Business Communica		3
CPTR 324	Systems Analysis		2		Area B, UD Religion		3
CPTR 325	Systems Design		2		Area E, Science		3
MATH 215	Statistics		3		Area F, Psychology		3
	Area B, Religion		3		Electives		2
	Area D-2, Literature		3				3
	Area F-2, Family Sci OR		2				16
	Area F-3, Health Sci		16				16
		16	15				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**BACHELOR OF SCIENCE DEGREES**

**Major—Business Administration:** 46 hours: ACCT 221-222, 321; BUAD 314, 315, 334, 339, 358, 414, 488; BMKT 326; ECON 224, 225; MATH 215; Six hours of electives in business, marketing, and accounting courses. Cognate requirements: CPTR 106, 116; OFAD 315; and SPCH 135.

**Typical Sequence of Courses for  
B.S. BUSINESS ADMINISTRATION**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
BUAD 128	Personal Finance		3	BUAD 334	Prin of Management	3	
CPTR 106	Intro to Spreadsheet		1	ECON 224-225	Prin of Economics	3	3
CPTR 116	Spreadsheet Applica		2		Area F-1, Psychology	3	
ENGL 101-102	College Composition	3	3		Area B, Religion	3	
MATH 120	College Algebra	3			Area D-2, Literature		3
SPCH 135	Intro to Public Spkg		3		Area G-3, Rec Skills	1	
	Area B-1, Religion	3			Area E, Nat Science		3
	Area C-1, History	3	3		Electives		3
	Area G-1/G-3 Skills	<u>1</u>	<u>1</u>			<u>16</u>	<u>15</u>
		16	16				
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 321	Managerial Accounting	3		BUAD 315	Business Finance	3	
BMKT 326	Intro to Marketing	3		BUAD 414	Business Strategies		3
BUAD 339	Business Law		3	BUAD 488	Seminar in Bus Admin		1
BUAD 314	Quant Meth-Bus Decis		3	OFAD 315	Bus Communications	3	
BUAD 358	Legal, Ethical, Env of Business		3		Area B, UD Religion	3	
MATH 215	Statistics	3			Area D-3, Fine Art App		3
	Area B, Religion		3		Area F-2, Fam/Hlth Sc	2	
	Area E, Nat Science	3			Elective in Acctg, Business, or BMKT	3	3
	Electives		<u>6</u>		Electives	<u>1</u>	<u>6</u>
		<u>15</u>	<u>15</u>			<u>15</u>	<u>16</u>

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major—Long-Term Health Care:** 50 hours: ACCT 221-222, 321; BMKT 326; BUAD 315, 334, 339, 358, 431, 432, 434, 435, 497; ECON 224, 225. Cognate requirements: CPTR 106, 116; SOCI 349; SPCH 135.

Students who have previously earned a bachelor's degree from an accredited college or university and who have completed all classwork required for a long-term health care major other than the specialized long-term health care classes, may receive a Bachelor of Science degree with a major in long-term health care upon the completion of 20 hours of long-term health care classes (BUAD 431, 432, 434, 435, 497).

This exception to the 30-hour residence requirement applies only to those who have completed all other major course requirements for the long-term health care degree at another institution and have received a bachelor's degree. Regular admission to the LTHC program is subject to receipt of an official transcript showing completion of the bachelor's degree from the former accredited institution.

**Typical Sequence of Courses for  
B.S. LONG-TERM HEALTH CARE**

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	ACCT 221-222	Prin of Accounting	3	3
CPTR 106	Intro to Spreadsheet		1	ECON 224-225	Prin of Economics	3	3
CPTR 116	Spreadsheet Applica		2		Area B, Religion		3
MATH 120	College Algebra	3			Area D-2, Literature		3
SPCH 135	Intro to Public Spkg	3			Area E, Nat Science	3	
	Area E, Nat Science		3		Area F, Fam/Hlth Sci	2	
	Area B-1, Religion	3			Area G-3, Rec Skills		1
	Area C-1, History	3	3		Electives	<u>3</u>	<u>3</u>
	Area F-1, Psychology		3			14	16
	Area G-1/G-3, Skills	<u>1</u>	<u>1</u>				
		16	16				
<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 321	Managerial Accounting	3		BUAD 497	LTHC Admin Intrnshp	8	
BMKT 326	Intro to Marketing	3			Area B, UD Religion		3
BUAD 334	Prin of Management	3			Electives	<u>8</u>	<u>8</u>
BUAD 315	Business Finance	3				8	11
BUAD 339	Business Law		3				
BUAD 358	Legal, Ethical, Env of Business		3				
SOCI 349	Aging & Society		3				
	Area D-3, Fine Art App		3				
	Electives		<u>6</u>				
		<u>15</u>	<u>15</u>				
<b>SUMMER (AFTER YEAR 3)</b>							
BUAD 431	Gen Admin of LTHC Facil	3					
BUAD 432	Tech Aspects of LTHC	3					
BUAD 434	Fin Mgmt of LTHC Facil	3					
BUAD 435	Hum Res Mgmt/Mkt LTHC	<u>3</u>					
			<u>12</u>				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Associate of Science Degree Major—Accounting:** 32 hours:  
ACCT 221-222, 311-312, 321; BUAD 126, 128, 358; ECON 213 or 224;  
Three hours of electives in ACCT, BUAD, or ECON. Cognate  
requirements: CPTR 106, 116; OFAD 105 or equivalent; SPCH 135.

### Typical Sequence of Courses for A.S. ACCOUNTING

<b>YEAR 1</b>		<b>Semester</b>			<b>YEAR 2</b>		<b>Semester</b>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
ACCT 221-222	Prin of Accounting	3	3		ACCT 311-312	Inter Accounting	4	4
BUAD 126	Intro to Business	3			ACCT 321	Mang Accounting	3	
CPTR 106	Intro to Spreadsheet		1		BUAD 128	Personal Finance	3	
CPTR 116	Spreadsheet Applica		2		BUAD 358	Legal, Ethical, Env of Business	3	
ECON 224	Prin of Economics				SPCH 135	Intro to Public Spkg		3
	OR	3				Area B-2, Religion		3
ECON 213	Survey of Economics					Area C-1, History	3	
ENGL 101-102	College Composition	3	3			Area E, Nat Science		3
	Area B-1, Religion	3				Business Elective	3	3
	Area F-1, Psychology		3				16	16
	Area G-3, Rec Skills	1						
	Area A-2, Math		0-3					
	Electives		4-1					
		16	16					

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially the requirements of make-up of admissions deficiencies.

**Major—Office Administration:** 49 hours: OFAD 115, 213, 214, 216, 218, 221, 223, 225, 228, 315, 317, 345; ECON 213 or 224; BUAD 334, 339, 344; three hours of upper division electives in OFAD, BUAD, ACCT, or ECON. Cognate requirements: ACCT 221-222; CPTR 120 or equivalent; SPCH 135.

### Typical Sequence of Courses for B.S. OFFICE ADMINISTRATION

<b>YEAR 1</b>		<b>Semester</b>			<b>YEAR 2</b>		<b>Semester</b>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3		ACCT 221-222	Prin of Accounting	3	3
OFAD 115	Document Formatting	3			OFAD 214	Microcomput Doc Prod	3	
OFAD 213	Information Res Mgmt	3			OFAD 228	Speedwriting Tech	3	
OFAD 216	Business English	3			OFAD 315	Bus Communications		3
OFAD 218	Business Math Cal		2		OFAD 317	Office Admin Procd		3
OFAD 221	Office Transcription		3		OFAD 345	Computer-Aided Publish		3
OFAD 223	Office Systems Tech		3		SPCH 135	Intro to Public Spkg	3	
OFAD 225	Professional Development		2			Area B, Bible		3
	Area B, Bible		3			Area E, Science	3	
	Area C, History		3			Area F, Beh Science	2	
	P.E.		1				17	15
		16	16					

<b>YEAR 3</b>		<b>Semester</b>			<b>YEAR 4</b>		<b>Semester</b>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
BUAD 339	Business Law		4		BUAD 334	Prin of Management	3	
CPTR 120	Computer-Based Sys	3			BUAD 344	Human Resource Mgmt		3
ECON 213	Survey of Economics	3				Area B, Bible		3
	Area A-2, Mathematics	3				Area C, History		3
	Area B, Bible		3			Area D, Lit/Lang/FA/ Speech	3	
	Area D, Lit/Lang/FA/ Speech		3			Area F, Behavioral Sci	3	
	Area E, Science	3				Area G-1, or G-3	2	
	Elective: OFAD, BUAD, ACCT, ECON		3			Electives	3	6
	Electives	3	3				14	15
		15	16					

**Major—Associate of Science Degree, Office Administration:** 40 hours: OFAD 115, 213, 214, 216, 218, 221, 223, 225, 228, 230, 315, 317, 245; ACCT 103 or 221; Cognate requirement: SPCH 135.

**Typical Sequence of Courses for  
A.S. OFFICE ADMINISTRATION**

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ENGL 101-102	College Composition	3	3	ACCT 103	College Accounting <u>OR</u>	3	
OFAD 115	Document Formatting	3		ACCT 221	Prin of Accounting		
OFAD 213	Info Resources Mgmt	3		OFAD 214	Micro Doc Prod	3	
OFAD 216	Business English	3		OFAD 228	Speedwriting Tech	3	
OFAD 218	Business Math Cal		2	OFAD 230	Applied Office Practice		3
OFAD 221	Office Transcription		3	OFAD 245	Computer-Aided Publish		3
OFAD 223	Office Systems Tech		3	OFAD 315	Bus Communications		3
OFAD 225	Prof Development		2	OFAD 317	Office Admin Proceed		3
	Area B, Bible		3	SPCH 135	Introduction to Speech		3
	Area C, History		3		Area B, Bible		3
	Physical Ed		$\frac{1}{16}$		Area E, Science		3
			$\frac{1}{16}$		Area F, Behavior Sci		$\frac{2}{17}$
							$\frac{15}{15}$

**Major—A.S. Pre-Health Information Administration (Formerly Pre-Medical Records Administration Program):** Twenty-five semester hours including BIOL 101-102; MATH 120; PSYC 124; OFAD 115, 316; ACCT 103; ECON 213. General education requirements include: ENGL 101-102; Speech, 3 hours; PEAC 3 hours; History, 6 hours; Literature, 3 hours; Humanities/Fine Arts, 3 hours; HLED 173; CPTR 120; Religion, 9 hours; SOCI 223.

This program fulfills requirements for admission to Loma Linda University for completion of the B.S. degree in Health Information Administration.

**Typical Sequence of Courses for  
A.S. PRE-HEALTH INFORMATION ADMINISTRATION  
Formerly Medical Records Administration  
(Allied Health Professions)**

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ENGL 101-102	College Composition	3	3	ACCT 103	College Accounting	3	
BIOL 101-102	Anatomy & Physiology	3	3	ECON 213	Survey of Econ	3	
PSYC 124	Intro to Psychology	3		HLED 173	Health and Life		2
OFAD 115	Document Formatting	3		OFAD 316	Medical Terminology	3	
MATH 120	College Algebra		3	CPTR 120	Computer-Based Sys	3	
SPCH 135	Into to Public Spkg		3	SOCI 223	Marriage & Family		2
	Area B, Religion		3		Area B, Religion		3
	Area G-3, Rec Skills		$\frac{1}{16}$		Area C-1, History		3
			$\frac{1}{16}$		Area D-2, Lit		3
					Area D-3, F/A		3
					Area G-3, Rec Skills		$\frac{1}{15}$
							$\frac{17}{17}$

**NOTE:** C- is the lowest acceptable grade for a course.

The Allied Health Professions Admissions Test (AHPAT) is required.

**MINORS IN BUSINESS, MARKETING, AND OFFICE ADMINISTRATION, 18 HOURS:**

**Business Administration:** ACCT 221-222; ECON 213 or 224; BUAD 334 or 344; and 6 hours of upper division in ACCT, BUAD, or ECON.

**Marketing:** BMKT 326, 327, 424, plus 9 hours of electives in marketing.

**Office Administration:** OFAD 115, 216, 221, 223, 315, 345.

The following courses **MUST BE TAKEN** in residence at Southern College in various Business Department majors:

**B.B.A. Degree**

**BBA Core:**

BUAD 315	Finance	3
BUAD 358	Legal, Ethical and Social Envir of Bus	3
BUAD 488	Business Seminar	<u>1</u>
		<b>7 hours</b>

**Accounting Major:**

ACCT 417	Auditing	<u>3</u>
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**Management Major:**

BUAD 414	Business Strategies	<u>3</u>
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**Marketing Major:**

BMKT 424	Marketing Strategy	3
BMKT 428	Marketing Management	<u>3</u>
		<b>6 hours</b>

**B.S. Degree:**

**Business Administration Major:**

BUAD 315	Finance	3
BUAD 358	Legal, Ethical, and Social Envir of Bus	3
BUAD 414	Business Strategies	3
BUAD 488	Business Seminar	<u>1</u>
		<b>10 hours</b>

**LTHC Major:**

BUAD 431	Gen Admin of LTC Facility	3
BUAD 432	Technical Aspects of LTC	3
BUAD 434	Financial Mgmt of LTC Facility	3
BUAD 435	Human Resource Mgmt & Marketing of the LTC Facility	3
BUAD 497	LTC Internship	<u>8</u>
		<b>20 hours</b>

**Office Administration Majors (4 year and 2 year):**

OFAD 225	Professional Development	2
OFAD 317	Office Admin Procedures	<u>3</u>
		<b>5 hours</b>



**ACCOUNTING****ACCT 103. College Accounting (G-2) 3 hours**

This course covers the fundamental accounting processes dealing with the book-keeping and accounting functions for the small business, professional offices, merchandising firms and service organizations. This course does not apply toward a bachelor's degree offered by the Department of Business and Office Administration. (Fall)

**ACCT 221-222. Principles of Accounting (G-2) 3,3 hours**

A course designed to introduce the student to the "Generally Accepted Accounting Principles." The theory of debit and credit, transaction analysis, financial statement preparation, analysis of basic balance sheet accounts, income recognition, and basic management accounting concepts are covered. Usually not open to freshmen. (Fall, Spring, Summer)

**ACCT 311-312. Intermediate Accounting 4,4 hours**

Prerequisite: ACCT 221-222.

An advanced course in accounting principles and theory including preparation of financial statements, intensive study and analysis of the classification and evaluation of balance sheet accounts and their related income and expense accounts. (Fall, Spring)

**ACCT 316. Governmental and Fund Accounting 3 hours**

Prerequisite: ACCT 221-222

A course designed to provide an in-depth coverage of the concepts of fund accounting as they apply to governmental units and not-for-profit institutions including schools and hospitals. Attention will be given to the pronouncements of the Governmental Accounting Standards Board. (Spring)

**ACCT 321. Managerial Accounting 3 hours**

Prerequisite: ACCT 222.

A study of cost accounting fundamentals with emphasis on accounting as a managerial tool. Special attention is given to cost-volume-profit relationships, job-order costing, budgeting, standard costing, capital budgeting, cost behavior patterns, transfer pricing, and divisional performance measurement. (Fall)

**ACCT 322. Cost Accounting 3 hours**

Prerequisites: ACCT 321 and MATH 215.

An in-depth study of the more technical aspects of cost accounting systems, including cost allocations, joint product and by-product accounting, actual, standard, and direct cost methods. Process cost is emphasized. The more quantitative aspects of management are covered including decision-making under uncertainty, inventory control, cost behavior and regression analysis, the variance investigation decision, and mix and yield variances. (Spring)

**ACCT 415. Advanced Accounting 3 hours**

Prerequisite: ACCT 311-312.

A course designed to study the problems concerned with consolidated financial statements, partnerships, business firms in financial difficulty, estates and trusts, foreign exchange, segment reporting. (Spring)

**ACCT 417. Auditing****3 hours**

Prerequisite: ACCT 311-312.

A course designed to study auditing and its related types of public accounting work including generally accepted auditing standards, professional code of ethics of the AICPA, and auditing procedures. (Fall)

**ACCT 418, 419. C.P.A. Review Problems****3,3 hours**

Prerequisite: Permission of instructor.

A course designed to study accounting theory, auditing, accounting practice, and business law as exemplified by the official accounting pronouncements of the AICPA and FASB. (Fall, Spring)

**ACCT 421. Federal Income Taxes I****3 hours**

Prerequisite: ACCT 221

An introductory course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems of individuals. Primary emphasis is on Federal Income Taxes but Social Security Taxes will also be included. (Fall)

**ACCT 422. Federal Income Taxes II****3 hours**

Prerequisite: ACCT 421

A course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems facing corporations, partnerships, estates, trusts. An introduction to tax research will also be included. (Spring)

**ACCT 437. Auditing Applications****3 hours**

Prerequisite: ACCT 417

An advanced course in auditing with emphasis on auditing in the EDP environment and the use of statistical techniques. A practice set will be required.

**ACCT 443. Accounting Systems I****3 hours**

Prerequisite: ACCT 222

A study of accounting information systems. Internal control, reporting systems, computer based systems and systems development will be covered. (Fall)

**ECONOMICS****ECON 213. Survey of Economics (C-2)****3 hours**

A course designed for the general education student. It provides an understanding of the United States' mixed economy through a study of the market system, the role of money, the government's fiscal policy, and the impact of the foreign sector. This course does not apply on a major in accounting, management, or marketing. No credit is available if ECON 224 or 225 has been taken. (Fall)

**ECON 224, 225. Principles of Economics (C-2)****3,3 hours**

ECON 224 (Macroeconomics) deals with total employment, output and income, with inflation and recession, and with the variables that influence these conditions. ECON 225 (Microeconomics) deals with scarcity and choice, individual goods and markets, and the price mechanism showing how it automatically directs the society's resources into the most desirable uses.

BUSINESS ADMINISTRATION

- BUAD 126. Introduction to Business (G-2) 3 hours**  
A course designed to provide a basic understanding of the American business system and free enterprise concepts. Business practices, business terminology and contemporary business issues are covered. Students who have 18 or more hours of credit in business courses are ineligible to take this course for credit. (Fall, Spring)
- BUAD 128. Personal Finance (F-2) 3 hours**  
A course in basic economic concepts and business terminology and practices designed to provide the techniques to manage personal finances. Budgeting, consumerism, insurance, home ownership, and investments are included in the topics covered. (Fall, Spring)
- BUAD 314. Quantitative Methods for Business Decisions 3 hours**  
Prerequisite: MATH 215.  
Linear Programming—simplex method, primal/dual interpretation, transportation problems. Decision theory under classical and Bayesian statistics. Game theory, inventory models and control, queuing theory. Program Evaluation and Review Technique (PERT). (Spring)
- BUAD 315. Business Finance (W) 3 hours**  
Prerequisite: ACCT 221-222.  
A study of the fundamental principles of financial organization. Emphasis on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization. (Fall, Summer)
- BUAD 334. Principles of Management 3 hours**  
A beginning course designed to study business management including an analysis of business policies viewed from the standpoint of the functional characteristics of the management process and current ethics. (Fall)
- BUAD 339. Business Law 3 hours**  
A course designed to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations. (Spring)
- BUAD 344. Human Resource Management 3 hours**  
An introduction to the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at high levels. Among topics covered are selection, training, compensation and financial incentives, work standards, techniques of supervision and leadership. (Spring)
- BUAD 353. Management of a Small Business 3 hours**  
A course on the principles and problems of organizing and operating a small business. Topics covered will include a procedural system for establishing a new business, providing physical facilities, financing, organizing, and the management of the small business. (Fall)

**BUAD 354. Principles of Risk Management 3 hours**

An introductory study in the field of risk management. Material covered includes risk identification and measurement, insurance contracts and risk control tools. Insurance categories covered include liability, property, health and life. The primary emphasis will be on business applications, but some consideration will be given to the personal risk. (Spring)

**BUAD 358. Legal, Ethical, and Social Environment of Business 3 hours**

A study of how business should operate within the legal, ethical and political environment, its relationship to government agencies and control, and how individuals in leadership should relate to various social and ethical problems. (Fall)

**BUAD 414. Business Strategies (W) 3 hours**

Prerequisites: BUAD 334, 315; ACCT 222; BMKT 326

This course of study is designed to give the student experience in decision-making and problem-solving through the case method. Students learn to identify, analyze, propose alternative solutions and make satisfactory decisions about business problems. Attention will be given both to internal problems and the external competitive nature of business. (Spring)

**BUAD 425. Fundamentals of Investments (W) 3 hours**

Prerequisite: ACCT 222.

A practical, as well as a theoretical, approach is taken for the potential investor of institutional or personal funds through the use of problems, readings, and cases. Topics covered will include stocks and bonds in the security market, real estate, and fixed equipment investments. (Spring)

**BUAD 431. General Administration of the Long-Term Care Facility 3 hours**

A study of management tools and techniques including theories of organization and management, mechanisms for planning, organizing, directing, and controlling, including a review of the history and philosophy of facilities. A review of licensing requirements, insurance, business law, human relations and public relations will also be included. (Summer)

**BUAD 432. Technological Aspects of Long-Term Care 3 hours**

A detailed study of the technical aspects of long-term care administration. Their relationship to other health care facilities in the total health care system, and technically related medical relationships and services. A complete review of OBRA is also included. (Summer)

**BUAD 434. Financial Management of the Long-Term Care Facility 3 hours**

A review of techniques and interpretation of financial information for management decision-making in the long-term care facility. (Summer)

**BUAD 435. Human Resource Management and Marketing of the Long-Term Care Facility 3 hours**

A study of the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at a high level. Selection, compensation, financial incentives, work standards, and leadership are the topics that will be covered. Marketing functions, problems, services, and competitive practices will also be covered. (Summer)

**BUAD 488. Seminar in Business Administration 1 hour**

This course will include the Eugene Anderson Lecture Series in business. Top men and women in their field will present lectures in insurance, real estate, finance, retailing, production management, etc. Attendance at ten lectures will be required. This course may be repeated for credit. (Spring)

**BUAD 295/495. Directed Study 1-3 hours**

Individual research work open only to business majors. Content to be arranged. Approval must be secured from Department Chair prior to registration.

**BUAD 497. Long-Term Care Administration Internship 8 hours**

A tailored program of management experience in a selected long-term care facility will include 400 clock hours of on-the-job experience. For a fee of \$1 per clock hour, students may take additional on-the-job experience required for national examinations in some states. The internship will be limited to an area within 600 miles of Southern College, and if it is beyond that additional fees may be imposed to cover the cost. The number of on-site visits by college personnel will depend on the past experience between the college and the facility and on the qualifications of the preceptor involved. To maintain college control, two visits per internship will be normal. With good past experience and a highly qualified preceptor, one visit will be expected. Three visits may be needed if difficulties arise. The number of required visits is at the discretion of the college. A 50 percent tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**MARKETING****BMKT 326. Introduction to Marketing 3 hours**

A study of the nature and functions of marketing. Includes marketing institutions, basic problems in the marketing of commodities and services, price policies, and competitive practices. (Fall)

**BMKT 327. Consumer Behavior 3 hours**

Prerequisite: BMKT 326.

An analysis of the consumer decision making process where behavioral science is combined with marketing theory to enable the marketer to understand and predict consumer behavior in the various stages of the buying decision. (Fall)

**BMKT 328. Sales Management 3 hours**

Prerequisite: BMKT 326.

An examination of the basic sales processes necessary to achieve organizational objectives and the professional techniques used in the management of the sales force ranging from planning-recruiting to day-to-day management. (Fall)

**BMKT 423. Promotional Strategy 3 hours**

Prerequisite: BMKT 326.

An analysis of the communication function of marketing. Advertising, public relations, sales promotions, and personal selling are examined to enable the student to design an appropriate and complete promotional strategy for the business organization. (Spring)

**BMKT 424. Marketing Strategy 3 hours**

Prerequisite: BMKT 326.

A case study approach to the solving of major marketing problems of various organizations and the ability to formulate appropriate strategies in responding to the presented case problems. (Spring)

**BMKT 425. Marketing Research 3 hours**

A study of the role of research in marketing decision-making; research process, scientific methods; analysis and interpretation of research findings. (Spring)

**BMKT 428. Marketing Management 3 hours**

Prerequisite: BMKT 326.

This course is to design a real work marketing plan. Starting with organizational objectives, research is designed and then implemented with a marketing recommendation report to the participating business organization. (Spring)

**OFFICE ADMINISTRATION****OFAD 105. Keyboarding (G-2) 3 hours**

This course is designed to introduce students to touch typing and basic formatting techniques. Emphasis is on mastery of the keyboard, developing basic keyboarding skills and formatting basic documents, including personal letters, business letters, memos, envelopes, tables, reports, outlines, and centered material such as announcements. Speed objective: 25-40 wpm. Not open to challenge examination. (Fall)

**OFAD 115. Document Formatting (G-2) 3 hours**

Prerequisite: Placement test required.

This course builds on the keyboarding competencies students have developed. Emphasis is placed on increasing speed, improving accuracy, developing formatting skills, and learning production skills. Not open to challenge examination. (Fall)

**OFAD 213. Information Resource Management 3 hours**

Basic principles and procedures of storage and control of records involving a study of rules for alphabetic filing and projects on five methods of storage. An overview of automated file, using computer software. The criteria by which records are created, stored, used, and transferred are studied. (Fall)

**OFAD 214. Microcomputer Document Production (G-2) 3 hours**

Prerequisite: OFAD 115.

The microcomputer is used to provide experience in producing documents found in typical business offices. The major focus of the course is productivity and excellence in document production. Emphasis is also placed on the mastery of word processing functions, composition skills, and application of communication skills. (Fall)

**OFAD 216. Business English 3 hours**

Pre- or corequisite: ENGL 101.

An intense study of elementary grammar, punctuation, vocabulary, spelling, and word usage as necessary for the fundamentals of business communication. (Fall)

**OFAD 218. Business Math Calculations (G-2) 2 hours**

Prerequisite: MATH 099 or ACT score of 16 or above.

The use of the electronic calculator to solve basic business arithmetic operations, such as percentages, interest, discounts, fractions, merchandising, payroll, depreciation and use of credit. (Spring)

**OFAD 221. Office Transcription 3 hours**

Prerequisite: ENGL 101, OFAD 216.

Pre- or corequisite: OFAD 214.

Development of skill in producing mailable office documents, using machine dictation. Focuses upon the development of business grammar, punctuation and document styles used in office transcription, regardless of the input media or kind of keyboarding equipment used. (Spring)

**OFAD 223. Office Systems Technology 3 hours**

An introduction to office systems. Through lectures, films and field trips, the student will learn about people, procedures and technology for the modern office environment. (Spring)

**OFAD 225. Professional Development (G-2) 2 hours**

A program designed to provide an awareness of the "people" skills essential for job success. Topics include developing a positive self-image, ethics, time management, human relations and communications skills, organizational dynamics, and professional development. (Spring)

**OFAD 228. Speedwriting Techniques (G-2) 3 hours**

Prerequisite: OFAD 115, 216, 221, or permission of instructor.

This course provides instruction in "SuperWrite," an abbreviated writing system, based on the letters of the alphabet; designed to provide a fast method of notetaking. Fundamental principles presented and applied, together with transcription emphasis and practice. (Fall)

**OFAD 230/430. Applied Office Practice 3 hours**

Pre- or corequisite: OFAD 317.

Supervised on-campus work program in an administrative office of the college or related industries. Conferences scheduled with instructor during semester for guidance and evaluation. Arrangements to be made in advance with department instructor. Open only to senior Office Administration majors. (Spring)

**OFAD 315. Business Communications (W) 3 hours**

Prerequisite: ENGL 101, 102.

A study and application of the modern practices in oral and written business communications. Accuracy in grammar, spelling and punctuation, and the writing of well-knit sentences and clear paragraphs are taught as a means of effective expression in business letter writing. (Fall, Spring)

**OFAD 316. Medical Terminology 3 hours**

Pre- or corequisites: OFAD 214, BIOL 101, or consent of instructor.

A study of medical terms—their pronunciation, spelling, and meaning and their application to medical secretarial work. (Fall)

**OFAD 317. Office Administration Procedures 3 hours**

Prerequisite: OFAD 213, 214, 223.

An integration of skills learned in previous office administration courses, together with emphasis on decision-making ability, judgment, business ethics and initiative used in the profession. Lectures/simulations. (Spring)

**OFAD 333. Advanced Medical Terminology and Transcription 3 hours**

Prerequisite: OFAD 223 and 316.

Continued emphasis on medical vocabulary, with emphasis on specific areas of medicine. Skill and knowledge developed in the transcription techniques and procedures of medical dictation. (Spring)

**OFAD 245/345. Computer-Aided Publishing (G-2) 3 hours**

This course is cross-listed with CPTe 245/345, Computer Science and Technology Department. A student may receive credit for this course from only one department.

An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready documents without conventional paste-up and typesetting services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout. (Fall, Spring)

**OFAD 295/495. Directed Study 1-3 hours**

Open only to majors in Office Administration. Research studies related to the field of Office Administration are assigned according to the experience and interest of the student. Length of project determines credit. This course may be repeated for credit.

## EDUCATION

**EDUC 438. Curriculum and Content Methods/Business 2 hours**

Prerequisite: Admission to Teacher Education.

A study of the status, disciplines, and curricular structure of business education, the psychology of skill development and measurement, and lesson development of specific classes. An investigation of instructional materials and resources for the business education classroom. Special areas of instruction will be presented for the endorsement clusters of Basic Business, Accounting, Data Processing and Office Technology.

(G-2), (W) See pages 52-56 for explanation of General Education requirements.



# CHEMISTRY

Chair: Steven Warren

Faculty: Wiley Austin, Sterling Sigsworth

Since everything we touch, eat, wear, or use is made of chemicals, the study of chemistry is an exciting and yet practical pursuit. A major in Chemistry can be your key to a rewarding and challenging career in a wide variety of areas such as the basic sciences or industrial research, pharmacology, toxicology, chemical engineering, forensic chemistry, chemistry education, medical and paramedical careers, as well as many business applications such as pharmaceutical and chemical sales, patent research and patent law, marketing and consulting, to name just a few.

The B.S. degree in Chemistry is recommended in preparation for graduate study leading to research oriented careers, professional applications of chemistry, or post-secondary education. The B.A. degree is the preferred degree for high-school teaching, premedicine, or pre-paramedical fields and possibly for some of the business applications.

## ASSESSMENT OF MAJORS

In order to aid the department in evaluating teaching effectiveness, nationally standardized tests prepared by the American Chemical Society for each of the various classes will be administered at the end of those classes.

**Major (B.A.):** Thirty hours including CHEM 151-152, 311-312, 313-314, 315, 321, 485 or 497. CHEM 411-412, 413-414 may be substituted for CHEM 315, 321. The first course in Calculus is a cognate requirement. CPTR 131 is strongly recommended. If CHEM 485 is not taken, then a speech class must be taken.

## Typical Sequence of Courses for B.A. CHEMISTRY\*

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
CHEM 151-152	General Chemistry	4	4	CHEM 311-312	Organic Chemistry	3	3
ENGL 101-102	College Composition	3	3	CHEM 313-314	Organic Chem Lab	1	1
MATH 120	College Algebra	3		MATH 181	Calculus I	3	
MATH 121	Trigonometry		2		Area B, Religion		3
	Area B, Religion	3			Area C-2, P Sci/Econ	3	
	Area E, Biol/Phys/ Earth Science		3		Area D, Lit/F Arts/ Speech		3
	Area G-3, Rec Skills		1		Area G-1, Creat Skill OR		2
	Electives or Minor	3	2		Area G-3, Rec Skills		
		16	15		Chemistry Electives	3	
					Electives or Minor		6
						15	16

# CHEMISTRY

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
CHEM 315	Analytical Chemistry	4		CHEM 485	Chemistry Seminar	1	
CHEM 321	Instrumental Analysis		4		Area B, UD Religion		3
CPTR 131	Fund of Progm I	3			Area F, Behav/Fam/ Health Science	3	
	Area B, Religion	3			Chemistry Elective	2	
	Area C-1, History	3	3		Electives or Minor	9	12
	Area D-1, For Lang	3	3			15	15
	Area F, Behav/Fam/ Health Science		3				
	Electives		3				
		16	16				

**\*NOTE:** If the student enters during the fall of an odd numbered year, this schedule applies. If the student enters during the fall of an even numbered year, then either years 2 and 3 or years 3 and 4 should be exchanged.

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major (B.S.):** Forty hours including CHEM 151-152, 311-312, 313-314, 315, 321, 411, 412, 413, 414, 425, 485, and 497 are required. Cognate requirements are: PHYS 211-212, 213-214, MATH 181, 182 and 315, CPTR 131. German or French is highly recommended. This course of study is designed for the professional chemist. Note that Physical Chemistry will be offered one year and Analytical and Instrumental Chemistries the following year. The student should plan accordingly.

## Typical Sequence of Courses for B.S. CHEMISTRY\*

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
CHEM 151-152	General Chemistry	4	4	CHEM 311-312	Organic Chemistry	3	3
CPTR 131	Funds of Prog I	3		CHEM 313-314	Organic Chem Lab	1	1
ENGL 101-102	College Composition	3	3	MATH 181	Calculus I	3	
MATH 120	College Algebra	3		MATH 182	Calculus II		4
MATH 121	Trigonometry		2		Area B, Religion	3	3
	Area C, History	3			Area C-1, History	3	
	Area B, Religion		3		Area D, Lang/Lit/ Fine Arts	3	3
	Area G-3, Rec Skills	1			Electives		1
	Area F, Behav/Fam/ Health Sci		3			16	15
		16	16				

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
CHEM 315	Analytical Chemistry	4		CHEM 411-412	Physical Chemistry	3	3
CHEM 321	Instr Analysis		4	CHEM 413-414	Physical Chem Lab	1	1
CHEM 425	Adv Organic Chem	3		CHEM 485	Chemistry Seminar	1	
MATH 315	Diff Equations		3	CHEM 497	Intro to Research	2	
PHYS 211-212	General Physics	3	3		Area B, Religion		3
PHYS 213-214	General Physics Lab	1	1		Area C-2, Pol Sci/ Economics		3
	Area B, Religion		3		Area D, Lang/Lit/ Fine Arts		3
	Area G-1, Creat/ or Rec Skills	2			Area F, Behav/Fam/ Health Science	3	3
	Chemistry Electives	3	2		Electives	2	16
		16	16			12	16

**\*NOTE:** If the student enters during the fall of an odd numbered year, this schedule applies. If the student enters during the fall of an even numbered year, then years 3 and 4 should be exchanged, and General Physics must be taken during the first or second year or a summer before the junior year.

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Minor:** Eighteen hours, six of which must be upper division.

**Certification to Teach:** Secondary certification in Chemistry requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 158.

## CHEMISTRY

### **CHEM 103. Pre-General Chemistry (E-2) 2 hours**

Prerequisite: Successful completion of two years of high school algebra or MATH 090.

Basic concepts in chemistry and mathematics as needed to begin General Chemistry. Two hours of lecture each week. Does not apply on a major or minor in chemistry. Taught second semester only. (Spring)

### **CHEM 111-112. Survey of Chemistry (E-2) 3,3 hours**

Prerequisite: A course in high school algebra.

A minimum Mathematics ACT score of 16 or a minimum grade of "C" in MATH 080 are required.

A survey course designed to familiarize the student with the basic principles of inorganic, organic and biochemistry. Three hours of lecture each week. Does not apply to a major or minor in Chemistry. (Fall, Spring, Summer)

### **CHEM 113-114. Survey of Chemistry Lab (E-2) 1,1 hours**

Prerequisite: Previous or concurrent enrollment in CHEM 111-112.

Laboratory material designed to illustrate the material in lectures of CHEM 111-112. Two and one-half hours of laboratory each week. Does not apply on a major or minor in Chemistry. (Fall, Spring)

### **CHEM 151-152. General Chemistry (E-2) 4,4 hours**

Prerequisites: High school chemistry and mathematics through Intermediate Algebra.

An introduction to the fundamental laws and accepted theories along with applications to the various fields of chemistry. Three hours of lecture and three hours of laboratory each week. (Fall, Spring)

### **CHEM 311-312. Organic Chemistry 3,3 hours**

Prerequisite: Successful completion of CHEM 151-152 or its equivalent.

Many of the fundamental functional groups of both aliphatic and aromatic carbon compounds are studied. Attention is also given to spectroscopy, relative reactivities, reaction mechanisms and physical properties of these compounds. There are three hours of lecture each week. (Fall, Spring)

- CHEM 313-314. Organic Chemistry Laboratory** **1,1 hours**  
 Prerequisite: Previous or concurrent enrollment in CHEM 311-312.  
 Experiments are done to acquaint the student with the basic organic chemistry laboratory techniques; melting points, boiling points, recrystallization, distillation, separations, etc. The exercises also illustrate reactions that are discussed in CHEM 311-312. Four hours of laboratory each week. (Fall, Spring)
- CHEM 315. Analytical Chemistry** **4 hours**  
 Prerequisite: CHEM 151-152.  
 A study of equilibria as it applies to analytical chemistry. Techniques of determinations, sampling, handling of data, and the detailed chemistry involved is studied in terms of quantitative determinations. Three hours of lecture and three hours of laboratory each week. This class is offered alternate years. (Fall, odd years)
- CHEM 321. Instrumental Analysis** **4 hours**  
 Prerequisite: CHEM 315.  
 A study of the theories, techniques and instruments involved in spectrometry, chromatography, electrochemistry and radiochemistry. Three lectures and one laboratory session per week. This class is offered alternate years. (Spring, even years)
- CHEM 323. Biochemistry** **4 hours**  
 Prerequisite: CHEM 311-312.  
 The compounds, mechanisms, and end products of the processes of life under normal and pathological conditions are studied. Also some of the techniques for studying these areas are considered. There are four hours of lecture each week and no lab. Up to two hours of credit can be counted toward a biology major. (Spring)
- CHEM 411. Physical Chemistry** **3 hours**  
 Prerequisites: CHEM 151-152; CPTR 131 or 218; PHYS 211-212; MATH 315, or permission of instructor.  
 Gases, kinetic theory, thermodynamics and reaction kinetics are studied with the main emphasis on thermodynamics. There are three hours of lecture each week. This is taught alternate years. (Fall, even years)
- CHEM 412. Physical Chemistry** **3 hours**  
 Prerequisite: PHYS 211-212; MATH 315; CPTR 131 or 218, or permission of instructor.  
 Areas to be studied include: Schroedinger's equation as an operator form of the energy equation; boundary-matching solutions for square wells and barriers; separation-of-variables method for the hydrogen atom; electron spin and the Pauli requirement for antisymmetric wave functions, with applications to states of light atoms; variation techniques for small atoms and molecules, Hueckel and LCAO methods, or other apparatus not including perturbation theory. There are three hours of lecture per week. This class is offered alternate years. (Spring, odd years)
- CHEM 413, 414. Physical Chemistry Laboratory** **1,1 hours**  
 Prerequisites: CHEM 315, also CHEM 411 and 412 must be taken concurrently or previously.  
 Experiments chosen to illustrate material in CHEM 411, 412. One laboratory period each week. This class is offered alternate school years. (Fall, even years; Spring, odd years)

**CHEM 425. Advanced Organic Chemistry 3 hours**

Prerequisite: CHEM 312

Compound types, reactions, and intermediates not considered in Organic Chemistry will be studied. Once a sufficient background has been established, an introduction to medicinal chemistry and synthesis of medicinal compounds will be studied. (Fall)

**CHEM 485. Chemistry Seminar (W) 1 hour**

Prerequisite: CHEM 311-312.

Written and oral reports are made on specific topics in the chemistry field. To be taken in the junior or senior year. (Fall)

**CHEM 295/495. Directed Study 1-3 hours**

Prerequisite: CHEM 151-152.

Designed for junior and senior students who wish to do private study or for a group of students who wish a special course on topics not taught under the regular class offerings. (Fall, Spring)

**CHEM 497. Introduction to Research (W) 1-2 hours**

Prerequisite: 20 hours of chemistry or permission of the instructor.

Individual research under the direction of the members of the staff. Problems are assigned according to the experience and interest of the student. Prior to registration, two semesters before graduation, students are urged to contact all chemistry staff members with respect to choice of available problems. This should be taken no later than the first semester of the senior year. (Fall, Spring)

**EDUCATION****EDUC 438. Curriculum and Content Methods/Chemistry 2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks.

**(E-2), (W)** See pages 52-56 for explanation of General Education requirements.

# COMPUTER SCIENCE AND TECHNOLOGY

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Chair: Bradley Hyde

Faculty: John Duricheck, Rick Halterman, Merritt MacLafferty

Adjunct Faculty: John Beckett, Judy DeLay

Computer Science deals with the design and programming of electronic digital computers. In today's society, it is rare that the average person goes through a day without using a computer in some way. Computers are used in cars, microwave ovens, VCR's, TV's and even washing machines. On Wall Street and at NASA, huge banks of computers display the current status. Almost everyone who writes now uses a word processor and even grade-school students are being taught by computers.

With the growing use of computers has come a growing shortage of computer professionals. While some companies must hire untrained applicants, most are seeking employees with the training, skill, and knowledge of a graduate in Computer Science. Graduates from a computer science program find jobs in industry, health care, financial institutions, education, and research.

The student should choose his area of interest and select courses from computer science and other fields that will fit well with his intended career. Some job titles are: Programmer, Systems Programmer, Systems Analyst, Team Leader, Data Base Administrator, Data Processing Manager, Software Engineer, Applications Engineer, Training Specialist, and Technical Writer.

## CODE OF COMPUTER CONDUCT AT SOUTHERN COLLEGE

1. Users must use only those computer accounts which have been authorized for their use.
2. Users must use their computer accounts only for the purposes for which they were authorized, as arranged with the Computer Service Department.
3. Users should minimize the impact of their work on the work of other users. It is the responsibility of the user to learn efficient means of utilizing the computer.

4. Users of campus computers must not make or use unauthorized copies of copyrighted software. Shareware may be freely copied, but students who continue to use it should register and pay the specified fee. Violation of copyright is a serious crime and penalties can be severe.
5. Planting "virus" programs or otherwise misusing campus computers in a way that might destroy the work others are doing is thoughtless vandalism and will be dealt with as any other destructive activity on campus.

### PROGRAMS IN COMPUTER SCIENCE

**Major (B.A.):** Thirty hours consisting of CPTR 131, 132, 217, 219, 280, 317, 318, 319, (324 or 325), 485, and three hours of upper division computer electives. Cognates required: MATH 120, 215; BUAD 334; SPCH 135. Only 3 hours of CPTR 105, 106, 107, 116, and 117 now apply to a major in Computer Science.

**Minor:** Eighteen hours including: CPTR 131, 132, 318. Of the remaining nine elective hours, three must be upper division.

The minor is an excellent background for those whose profession is outside of data processing, but who will have to use the computer in their job, or work closely with DP personnel. The minor is also appropriate for any student who simply has an interest in computers.

#### Typical Sequence of Courses for B.A. COMPUTER SCIENCE

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
CPTR 131-132	Fund of Prog I, II	3	3	CPTR 217	COBOL Prog Lang	3	
CPTR 219	Sym Assembler Lang		3	CPTR 280	Discrete Structures	3	
ENGL 101-102	College Composition	3	3	CPTR 317	Intro to Fil Proc		3
MATH 120	College Algebra		3	MATH 215	Statistics		3
MATH 090	Int Algebra				Area B, Religion	3	
	OR		3		Area D-1, For Lang	3	3
	Elective				Area F, Behav/Fam/ Health Science		2
	Area C-1, History	3			Area F, Nat Science	3	
	Area B, Religion		3		Area G-3, Rec Skills		1
	Area F, Behav/Fam/ Health Sci		3		Minor or Elective		3
		3	15			15	15

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
BUAD 334	Prin of Management	3		CPTR 485	Comp Sci Seminar		1
CPTR 318	Data Structures	3		SPCH 135	Intro to Public Spkg	3	
CPTR 319	Data Base Mgmt Sys		3		Area B, UD Religion	3	
CPTR 324	Systems Analysis				Area C-1, History		3
	OR		2		Area E, Nat Science	3	3
CPTR 325	Systems Design				Comp Sci Elective		3
	Area B, Religion		3		Minor or Electives	7	6
	Area C-2, Pol Sci/ Economics	3				16	16
	Area G-1, Creat Skls						
	OR	1	1				
	Area G-3, Rec Skills						
	Minor or Electives	6	7				
		16	16				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major (B.S.):** Forty hours consisting of CPTR 131, 132, 217, 219, 280, 317, 318, 319, 324 or 325, 485, and thirteen hours of computer electives, four of which must be upper division. Cognates required: MATH 120, 215; BUAD 334; SPCH 135. Only three hours of CPTR 105, 106, 107, 116, and 117 may apply to a major in computer science.

Those electing a B.S. in computer science may desire to work in a specific area of application of computer science, e.g., business, psychology, mathematics, or physics. Such students should include appropriate classes in these areas.

Students planning to do graduate work in computer science should definitely take the B.S. degree and include calculus and differential equations.

### Typical Sequence of Courses for B.S. COMPUTER SCIENCE

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
CPTR 131	Fund of Prog I	3		CPTR 217	COBOL Prog Lang	3	
CPTR 132	Fund of Prog II		3	CPTR 280	Discrete Structures		3
CPTR 219	Sym Assembler Lang		3	CPTR 317	Intro to File Proc		3
ENGL 101-102	College Composition	3	3	CPTR 318	Data Structures	3	
MATH 090	Intermediate Algebra			CPTR 319	Data Base Mgmt Sys		3
	OR		3	MATH 215	Statistics		3
	MATH Elective				Area B, Religion		3
MATH 120	College Algebra		3		Area E, Natural Sci	3	3
	Area B, Religion		3		Area F, Behav/Fam/ Health Science		2
	Area C-1, History	3			Area G-3, Rec Skills		1
	Area F, Behav/Fam/ Health Science					15	15
		3					
		15	15				



<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
BUAD 334	Prin of Management	3		CPTR 485	Comp Sci Seminar		1
CPTR 324	Systems Analysis			SPCH 135	Intro to Public Spkg	3	
	OR		2		Area B, UD Religion	3	
CPTR 325	Systems Design				Area C-1, History		3
	Area B, Religion		3		Elective, Comp Sci	3	3
	Area C-2, Pol Sci/ Economics	3			Electives	7	9
	Area D-1, For Lang	3	3			16	16
	Area G-1, Creative OR		1				
	Area G-3, Rec Skills						
	Elective, Comp Sci	3	4				
	Electives	3	3				
		16	16				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major in Computer Information Systems:** the B.B.A. Core requirements† plus CPTR 106, 116, 131-132, 217, 317, 318, 319, 324, 325, 326, 485; Cognates: MATH 120, 181, 215; SPCH 135; a psychology course.

### Typical Sequence of Courses for B.B.A. COMPUTER INFORMATION SYSTEMS

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
CPTR 106	Intro to Spreadsheets		1	BUAD 128	Personal Finance		3
CPTR 116	Spreadsheets Applica		2	CPTR 217	COBOL Programming	3	
CPTR 131	Fund of Prog I	3		CPTR 317	Intro to File Process		3
CPTR 132	Fund of Prog II		3	ECON 224,225	Prin of Economics	3	3
ENGL 101-102	College Composition	3	3	MATH 120	College Algebra	3	
SPCH 135	Intro to Public Spkg		3		Area B, Religion	3	
	Area B-1, Religion		3		Area D-3, Fine Arts		3
	Area C-1, History	3	3		Area G-3, Rec Skills	15	16
	Area G-1/G-3, Skills	1	1				
		16	16				

<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ACCT 321	Cost & Mang Acct I	3		BUAD 358	Legal-Ethical Env of Business	3	
BUAD 334	Prin of Management	3		BUAD 339	Business Law	3	
BUAD 314	Quant Mthds-Bus Dec	3		CPTR 326	Systems Management	2	
BUAD 488	Seminar in Bus Admin		1	CPTR 485	Computer Sci Seminar		1
CPTR 318	Data Structures	3		MATH 181	Calculus I		3
CPTR 319	Data Base Mgmt Systems	3		OFAD 315	Business Communicat	3	
CPTR 324	Systems Analysis	2			Area B, UD Religion		3
CPTR 325	Systems Design		2		Area E, Science	3	3
MATH 215	Statistics	3			Area F, Psychology	2	3
	Area B, Religion		3		Electives	16	16
	Area D-2, Literature		3				
	Area F-2, Family Sci OR		2				
	Area F-3, Health Sci						
		16	15				

†Core requirements BUAD 315 and BMKT 326 are not required for the Computer Information Systems major.

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Associate of Science Degree—Architectural Studies:** Twenty-five semester hours including ART 104, 110; CPTE 147, 245, 249; CPTR 105, 106, 107; TECH 101, 145, 151. Cognates: BIOL 126; HIST 174, 175; MATH 120; PHYS 137; PSYC 224; SPCH 135; ERSC 105 or GEOG 204.

The A.S. Degree in Architectural Studies can lead to advanced degrees or employment in the construction industry, the arts, business, and other fields.

**Typical Sequence of Courses for  
A.S. ARCHITECTURAL STUDIES**

**First Year**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ART 104	Beginning Drawing	2	ART 110	Design II	3
CPTR 105	Into to Word Proc	1	BMKT 326	Intro to Marketing	3
CPTR 106	Into to Spreadsheets	1	CPTE 251	CAD Architecture	3
CPTR 107	Intro to Data Base	1	ENGL 102	English Composition	3
ENGL 101	College Composition	3		Religion	3
MATH 120	College Algebra	3		Skills/Rec Health	1
TECH 101	Tech Awareness	2			16
TECH 151	Architectural Drafting	3			
		16			

**Second Year**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
BUAD 334	Prin of Management	3	BUAD 344	Human Resource Mgmt	3
CPTE 245	Computer-Aided Pub	3	CPTE 147	Intro to Arch & Inter	3
ECON 213	Survey of Economics	3	SPCH 136	Personal Communication	3
PHYS 137	Intro to Physics	3		History	3
TECH 145	Intro to Graphic Arts	3		Behavior/Family Sci	3
	Religion	3			15
		18			

**Associate of Science Degree—Computer Applications:** Thirty-six semester hours including TECH 101, 145, 149, 183; CPTE 245, 249, 376; CPTR 105, 106, 107, 116, 117, 120, 131, 219. Cognates: MATH 120; PHYS 137; SPCH 135.

The A.S. Degree in Computer Applications provides learning experiences in computer-aided drafting, computer numerically-controlled machines, robotics and automation, desktop publishing and other related computer applications.

Typical Sequence of Courses for  
A. S. COMPUTER APPLICATIONS

First Year

1st Semester		Hours	2nd Semester		Hours
CPTR 105	Intro to Word Process	1	CPTE 249	Comput-Aided Drafting	3
CPTR 120	Intro to Comp-Based Sys	3	CPTR 106	Intro to Spreadsheet	1
ENGL 101	College Composition	3	CPTR 116	Spreadsheet App	2
MATH 120	College Algebra	3	ENGL 102	College Composition	3
	(required cognate)		TECH 101	Technology Awareness	2
TECH 149	Mechanical Drawing	2	TECH 183	Basic Electronics	3
	Recreation Skills	1		Behavior/Fam Sci	3
	Religion	3			17
		16			

Second Year

1st Semester		Hours	2nd Semester		Hours
CPTE 245	Comput-Aided Publish	3	CPTR 219	Symbol Assembly Lang	3
CPTR 107	Intro to Database	1	TECH 376	Automation/Robotics	
CPTR 117	Database Programming	2		(CIM)	4
CPTR 131	Fund of Programming	3	PHYS 137	Intro to Physics	3
SPCH 135	Intro to Public Spkg	3		(Required Cognate)	
TECH 145	Intro to Graphic Arts	3		History	3
		15		Religion	3
					16

Associate of Science Degree—Computer Science: Twenty-four hours in computer science consisting of: CPTR 131, 132, 217, 219, 317, 318, 319. Cognates required: ACCT 221-222, 321; BUAD 334; SPCH 135.

Typical Sequence of Courses for  
A.S. COMPUTER SCIENCE

YEAR 1	Semester	Semester		YEAR 2	Semester	
		1st	2nd			
ACCT 221-222	Prin of Accounting	3	3	ACCT 321	Managerial Accounting	3
CPTR 131	Fund of Prog I	3		BUAD 334	Prin of Mgmt	3
CPTR 132	Fund of Prog II		3	CPTR 217	COBOL Prog Lang	3
CPTR 219	Symbolic Assemb Lang		3	CPTR 317	Intro to Fil Proc	3
ENGL 101	College Composition	3		CPTR 318	Data Structures	3
MATH 090	Intermediate Algebra			CPTR 319	Data Base Mgmt Sys	3
	OR	3		SPCH 135	Intro to Public Spkg	3
	MATH Elective				Area B, Religion	3
MATH 120	College Algebra		3		Area C, Hist/Pol Sci/ Economics	3
	Area B, Religion		3		Area E, Nat Sci	3
	Area G-3, Rec Skill	1			Area F, Behav/Fam/ Health Sci	2
	Electives	3				
		16	15			15 17

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements for make-up of admissions deficiencies.

## COMPUTER SCIENCE

- CPTR 104. Introduction to PC-DOS Usage (G-2) 1 hour**  
 This class is limited to students with no computer background or permission of the instructor. It is designed to introduce the student to the functions and features of the PC-DOS as a preparation for other computer application courses. Some general information about the hardware will be presented so that students may feel less intimidated about adding a new board to the computer or hooking up a new mouse. Students will learn how to format disks, manipulate files, and use many PC-DOS utilities. Does not apply toward a major or minor in computer science, nor does it satisfy the cognate requirements of other majors.
- CPTR 105. Introduction to Word Processing (G-2) 1 hour**  
 Prerequisite: A typing course or permission of instructor.  
 Word processing on a microcomputer including techniques for creating form letters, and using an electronic dictionary to check spelling. (Spring)
- CPTR 106. Introduction to Spreadsheets (G-2) 1 hour**  
 Prerequisite: MATH 090 or 103 or Math ACT of 22.  
 A course using microcomputer spreadsheet programs. The most commonly used functions will be described with simple lab problems.
- CPTR 107. Introduction to Data Base (G-2) 1 hour**  
 A course using microcomputers as electronic filing cabinets. Information retrieval, report generation, adding, deleting, and updating information. (Spring)
- CPTR 116. Spreadsheet Applications (G-2) 2 hours**  
 Prerequisite: CPTR 106.  
 The use of spreadsheet software on a microcomputer as an aid to financial planning and management. (Spring)
- CPTR 117. Database Applications 2 hours**  
 Prerequisite: CPTR 107  
 The use of database software including writing programs in the database language.
- CPTR 120. Introduction to Computer-Based Systems (G-2) 3 hours**  
 An overview of computer information systems. This survey course introduces computer hardware, software, procedures, systems, and human resources and explores their integration and application in business and other segments of society. The fundamentals of computer problem solving and programming in a higher-level programming language are discussed and applied. This course does not apply on a major in Computer Science. (Fall, Spring)
- CPTR 131. Fundamentals of Programming I (G-2) 3 hours**  
 Prerequisite: MATH 090, or MATH ACT of 22, or permission of instructor.  
 Control structures, data types, data representation, compiling, debugging, modularity, and standard programming algorithms are introduced, using a structured language. (Fall)
- CPTR 132. Fundamentals of Programming II (G-2) 3 hours**  
 Prerequisite: CPTR 131.  
 An introduction to software technology including elementary data structures for the development of reliable, modifiable programs. (Spring)

- CPTR 217. COBOL Programming Language (G-2) 3 hours**  
Prerequisite: CPTR 131.  
Semantics and syntax of COBOL. Emphasis is placed on business problems using the COBOL Language. (Fall)
- CPTR 219. Symbolic Assembler Language 3 hours**  
Prerequisite: CPTR 131.  
Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, symbolic coding and assembly systems and program segmentation and linkage. Systems and utility programs and programming techniques. Several computer projects to illustrate basic machine structure and programming techniques. (Spring)
- CPTR 280. Discrete Structures 3 hours**  
Prerequisite: MATH 120.  
Recommended: Familiarity with a programming language.  
An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)
- CPTR 317. Introduction to File Processing 3 hours**  
Prerequisite: CPTR 217.  
Tape and disc operations. Includes coverage of sequential and random access files and processing techniques. Development of programs and systems of programs for batch and interactive environments. (Spring)
- CPTR 318. Data Structures 3 hours**  
Prerequisites: CPTR 132 and MATH 120.  
Stacks, recursion, queues, lists, trees, graphs, sorting and searching. (Fall)
- CPTR 319. Data Base Management Systems 3 hours**  
Prerequisites: CPTR 318, 217.  
Recommended: CPTR 317.  
Introduction to relational, hierarchical, and network approaches. Design, implementation, and management issues. (Spring)
- CPTR 324. Systems Analysis 2 hours**  
Prerequisite: CPTR 317 or 319.  
System development life cycle, system documentation through the use of both classical and structured tools and techniques for describing data flows, process flows, input and output necessary for defining logical system requirements. Structured techniques for dealing with complexity in the development of computer based information systems.
- CPTR 325. Systems Design 2 hours**  
Prerequisite: CPTR 317 or 319.  
Logical and physical system design. Hardware/Software selection and evaluation. Logical Data Base Design. Theories relating to module design, module coupling, and module strength. Techniques for reducing a system's complexity.

(G-2) See pages 23-26 for explanation of General Education requirements.

- CPTR 326. Systems Management** **2 hours**  
 Prerequisite: CPTR 317 or 319.  
 This course presents management principles unique to the data processing environment. Emphasis is placed on site preparation, security, software version control, and user services.
- CPTR 365. Operating Systems** **3 hours**  
 Prerequisites: CPTR 219, 132.  
 Computer systems components, main storage organization, instruction sets, data representation, task management and scheduling, secondary storage concepts, multi-processor systems, microprogramming, and array procedures. (Fall, odd years)
- CPTR 366. Microcomputer Construction** **3 hours**  
 Prerequisites: CPTR 219, 132.  
 A class with a large lab component. The student will assemble on a plug-board a complete working microcomputer. The class will cover the information necessary to design a microprocessor based computer with static or dynamic memory, ROM, interrupts, DMA, and various types of I/O. Reading manufacturers specifications and working within the timing parameters is an important part of the course. (Spring, even years—enrollment limited to 10 due to lab equipment.)
- CPTR 376. Automation and Robotics** **4 hours**  
 See CPTE 376 for course description.
- CPTR 405. Organization of Programming Languages** **3 hours**  
 Prerequisites: CPTR 217, 219.  
 Develops understanding of the organization of programming languages and their run time behavior. A comparative study, introducing the student to a variety of languages. (Spring)
- CPTR 425. Computer Graphics** **3 hours**  
 Prerequisites: CPTR 132; MATH 120 and 121.  
 Recommended: MATH 181.  
 This course teaches the principles of generating graphical images on a computer with an emphasis on the underlying mathematical theory and its programming implementations. Topics include graphics primitives (points, lines, polygons, circles, ellipses), windowing techniques, clipping, 2-D and 3-D transformations, projections, 3-D viewing techniques, cubic interpolating and approximating curves (Bezier, B-spline, Catmull-Rom curves), bicubic 3-D surface patches, light and color, fractal curves and surfaces, hidden line and surface removal, depth sorting techniques, reflections, shading, surface mapping, ray tracing, animation techniques. (Fall, even years)
- CPTR 485. Computer Science Seminar (W)** **1 hour**  
 Prerequisite: CPTR 318 and 3 hours of CPTR credit numbered 319 or above.  
 Written and oral reports are made on specific topics treated in current computer science literature. Résumé writing, interviewing, application to graduate school, GRE testing, witnessing on the job and at graduate school are also discussed. (Spring)

**CPTR 490. Topics in Computer Science** 1-3 hours  
Prerequisite: Permission of Computer Science staff.  
Topics selected from areas of computer science not covered in other courses. May be repeated with permission to a maximum of six hours.

**CPTR 295/495. Directed Study** 1-3 hours  
Prerequisite: Consent of instructor and department chair.  
Individual or group work adjusted to meet particular needs of computer science students. May be repeated for credit up to six hours.

## COMPUTER TECHNOLOGY

**CPTE 101. Technology Awareness** 2 hours  
See TECH 101 for course description.

**CPTE 147. Introduction to Architecture and Interiors** 3 hours  
An examination of the scope and interrelationships of the professions of architecture and architectural interiors. The role of the designer in society is discussed with consideration of the opportunities for pursuing a rewarding career. Students are introduced to components of the faculty, each describing his or her teaching area. Information sources in architecture are outlined and methods of collecting, structuring and presenting data and ideas are included. Field trips are made to professional offices, manufacturers, and significant buildings and interiors. Open to all students.

**CPTE 251. Computer-Aided Design in Architecture** 3 hours  
Through tutorials, exercises, and projects the student gains working knowledge of the drafting and design capabilities of computer-aided design. Introduction to three-dimensional programs using DataCAD and other architectural programs.

**CPTE 245/345. Computer-Aided Publishing (G-2)** 3 hours  
An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready documents without conventional paste-up and typesetting services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout. (Fall, Spring)

**CPTE 249/349. Computer-Aided Drafting (G-2)** 3 hours  
Prerequisite: TECH 149 or equivalent.  
An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods of laboratory each week. Lecture as announced by the instructor. (Spring)

**CPTE 376. Automation and Robotics** 4 hours  
Prerequisites: TECH 149, 183, 249/349 or equivalent.  
Basic elements and principles of computer integrated manufacturing including terminology, computer hardware/software and interfacing, system integration, flexible manufacturing and robotic applications.

(G-2) See pages 52-56 for explanation of General Education requirements.

# EDUCATION AND PSYCHOLOGY

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**Chair:** George Babcock

**Faculty:** Fern Babcock, Diane Cooper, Robert Egbert, Jon Green, Carole Haynes, Helen Sauls, Jeanette Stepanske, Carl Swafford, Ruth Williams-Morris

**Adjunct Faculty:** John Baker, Ben Bandiola, LaVona Gillham, Kay Kuzma, Rita Roark, All K-12 staff serving as Cooperating Teachers

**1993/94 Teacher Education Advisory Council:**

George Babcock, Chair; John Baker, Vern Biloff, Hamlet Canosa, Jim Epperson, Conrad Gill, Jon Green, Carole Haynes, Nathaniel Higgs, Gordon Klocko, Gerald Kovalski, Norwida Marshall, Barry Mahorney, Oster H. Paul, Helen Sauls, Jeanette Stepanske, Don L. Weatherall, Ruth Williams-Morris

**1993/94 Teacher Education Council:**

George Babcock, Chair; Marcia Brashears, Kristine Clark, Joyce Cotham, Ron du Preez, David Ekkens, Phil Garver, LaVona Gillham, Jon Green, Floyd Greenleaf, Jan Haluska, Carole Haynes, Terry Loeffler, Philip Mitchell, Bob Moore, Debbie Perdue, Dennis Pettibone, Mary Jayne Ries, Marvin Robertson, Kermise Rowe, Helen Sauls, Jeanette Stepanske, Carl Swafford, William Wohlers

## DEGREES OFFERED

### BACHELOR OF ARTS DEGREE IN PSYCHOLOGY

Psychology has been a stand-alone major at Southern College for more than a decade, with graduates later pursuing study in such fields as marriage and family counseling, community and school counseling, school psychology, counseling and clinical psychology, and industrial and experimental psychology—as well as business, law, dentistry, and medicine. Statistical and simulation computer software have enhanced student research practice and training—with Apples, Model 4's, IBM's and compatibles, and campus terminals.

At Southern College—and elsewhere—the Psychology major is considered preprofessional. It is an undergraduate major in psychology which will serve as preparation for later study at the master's and doctoral degree levels. In order to improve one's chances for admission



to graduate programs, a student will want to (a) achieve well in psychology and general education courses, (b) take as many psychology electives as possible, along with statistics and computer science, (c) obtain a competitive score on graduate admission tests (usually the GRE) taken during the fall of the senior year, and (d) apply to 10 or more specific schools for graduate study.

**Major:** Thirty hours including PSYC 124, 128, 315, 357, 377, 415, 434, and 485. Cognate requirements are SPCH 135; MATH 215 (with C- grade or above); and three hours each in biology and computer science.

**Minor:** Eighteen hours including PSYC 124, 128. Six hours of upper division are required for the minor in psychology.

Typical Sequence of Courses for  
**B.A. PSYCHOLOGY**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
PSYC 124	Intro to Psychology	3		PSYC	Electives	3	4
PSYC 128	Developmental Psych		3	BIOL 103	Area E-1, Prin of Bio	3	
ENGL 101-102	College Composition	3	3		Area D-1, For Lang	3	3
RELB 125	Life & Teachings	3		RELB	Area B-1, Bible Stud	3	
MATH 103	Survey of Math	3		RELT	Religion Elective	3	
HIST 174	World Civilization				Elective in Minor		3
	OR	3		ERSC 105	Earth Sci or Area-E		3
HIST 154	Amer Hist & Insti			SPCH 135	Area D, Intro to		
PEAC	Area G-3, Elective	1			Public Speaking		3
	Elective in Minor		3			15	16
CPTR 105	Intro to Word Process		1				
CPTR 106	Intro to Spreadsheets		1				
CPTR 107	Intro to Data Base		1				
HIST 175	World Civilization						
	OR		3				
HIST 155	Amer Hist & Institu						
		16	15				
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
PSYC	UD Elective	2		PSYC 377	Fund of Counseling		3
PSYC 315	Abnormal Psych	3		PSYC 434	Research Design & Prac	3	
PSYC 357	Psych Testing		3	PSYC 495	Directed Study		1
PSYC 415	Hist & Sys of Psych		3		Elective in Minor	3	
MATH 215	Statistics (Cognate)		3		UD Elective in Minor	6	
	UD Electives		6	RELT	UD Religion Elective	3	
	Electives in Minor		3		Electives		6
	Areas G-1 or G-3				UD Electives		4
	Electives	2		PSYC 485	Psychology Practicum	1	1
	Area C-2, PLSC/ECON	3				16	15
	Electives	3					
		16	15				

**BACHELOR OF ARTS IN PSYCHOLOGY**

**Leading to Licensure K-8**

While this degree program is open to anyone, it is required for all those who desire to teach Kindergarten and/or lower elementary grades.

**Major (B.A.):** Thirty-two hours including PSYC 124, 128, 217, 230, 233, 240, 315, 336, 356, 377, 421, 434, and 485.

PSYC 124	Introduction to Psychology	3
PSYC 128	Developmental Psychology	3
PSYC 217	Educational Psychology	2
PSYC 230	Principles and Applications of Cognitive Development	2
PSYC 233	Human Sexuality	3
PSYC 240	Education for Exceptional Children and Youth	2
PSYC 315	Abnormal Psychology	3
PSYC 336	Language Acquisition and Development	2
PSYC 356	Tests and Measurements	2
PSYC 377	Fundamentals of Counseling	3
PSYC 421	Behavioral Management	2
PSYC 434	Research Design and Practices	3
PSYC 485	Psychology Practicum	2
	<b>TOTAL</b>	<b>32</b>

The courses listed below must be taken, in addition to the major, to fulfill teacher licensure requirements. These courses also fulfill general education requirements as outlined:

AREA A	ENGL 101, 102; MATH 215; Math Elective 100 or higher	12
AREA B	RELB, 3 hours; RELB, 3 UD hours; RELT 138, 255	12
AREA C	HIST 154, 175, 356; GEOG 204	12
AREA D	Foreign language if less than 2 units earned in high school	0-6
	ART 230; MUED 231; SPCH 135; LIBR 325; English Lit selected from ENGL 214, 215, 216.	13
AREA E	BIOL 103; CHEM 111; ERSC 105	9
AREA F	HLED 173, 203	4
AREA G	3 hours PEAC; PETH 463	5
	EDUC 135, 250, 332, 426, 427, 443, 453, 454, 455, 456, 457, 462, 465, 466	34

Typical Sequence of Courses for  
**B.A. PSYCHOLOGY**  
 Leading to Licensure K-8

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	ERSC 105	Earth Science		3
EDUC 135	Intro to Education	3		HIST 154	American Hist & Inst	3	
PEAC	PE Activity Elective	1		PEAC	PE Activity Elective	1	
PSYC 124	Intro to Psychology	3		PSYC 233	Human Sexuality		3
RELT 138	Adventist Heritage	3		RELT 255	Christian Beliefs	3	
	Area D-1, Foreign Lang	3	3	SPCH 135	Intro to Public Spkg	3	
BIOL 103	Prin of Biology	3		ART 230	Intro to Art Exper		2
HLED 173	Health and Life	2		CHEM 111	Survey of Chemistry	3	
HLED 203	Safety Education	2		EDUC 250	Technology in Ed		2
PSYC 128	Developmental Psych		3	HIST 175	World Civilizations		3
		16	16	PSYC 230	Prin & Appl Cog Dev		2
				PSYC 240	Tchg Except Ch & Yth	2	
						15	15

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
GEOG 204	World Geography	3		EDUC 332	Teaching of Reading	2	
LIBR 325	Library Mat Children	3		EDUC 427	Current Issues in Ed	2	
MATH 215	Statistics	3		EDUC 453	Math Methods	2	
PSYC 336	Lang Acq/Develop	2		EDUC 457	Social Studies Meth	2	
PSYC 356	Tests & Measurements	2		EDUC 463	Small Schools Sem	1	
RELB	Elective	3		PETH 463	PE in Elem School	2	
HIST 356	Natives & Strangers		3	PSYC 421	Behavior Management	2	
MUED 231	Music and Movement	2		PSYC 434	Research Design/Prac	3	
PEAC	PE Activity Elective	1		RELB	UD Elective		3
PSYC 217	Educational Psych	2		EDUC 426	Kindergarten Methods	3	
PSYC 377	Fundamentals of Counsel	3		EDUC 443	Classroom Competencies	2	
PSYC 485	Psychology Practicum	1		EDUC 454	Science & Health Meth	2	
PSYC 315	Abnormal Psychology		3	EDUC 455	Bible Methods	2	
		16	15	EDUC 456	Lang Arts Methods	2	
				EDUC 462	Organization & Ldrshp	1	
				PSYC 485	Psychology Practicum	1	1
						16	16

YEAR 5

EDUC 466 Enhanced Student Tchg 8

**B.S. IN SOCIAL SCIENCE**  
 Leading to Licensure 1-8  
 (With Language Arts Emphasis)

This degree program is required for those who desire to teach the middle and upper elementary grades. However, the program is open to anyone.

**Major (B.S.):** Forty-one hours including ENGL 214, 218, 313 or 314, 315, Elective in Literature; HIST 154, 356; LIBR 325; PSYC 124, 128, 230, 240, 336, 356, 421, and 462.

ENGL 214	Survey of American Literature	3
ENGL 218	Grammar and Usage	3
ENGL 315	Introduction to Linguistics	3
ENGL	Literature Elective (upper division)	3
ENGL 313	Expository Writing	
	OR	3

ENGL 314	Creative Writing . . . . .	3
HIST 154	American History and Institutions . . . . .	3
HIST 356	Natives and Strangers . . . . .	3
LIBR 325	Library Materials for Children . . . . .	3
PSYC 124	Introduction to Psychology . . . . .	3
PSYC 128	Developmental Psychology . . . . .	3
PSYC 230	Principles and Application of Cognitive Development . . . . .	2
PSYC 240	Education for Exceptional Children and Youth . . . . .	2
PSYC 336	Language Acquisition and Development . . . . .	2
PSYC 356	Tests and Measurements . . . . .	2
PSYC 421	Behavior Management . . . . .	2
PSYC 462	Organization and Leadership . . . . .	1
	<b>TOTAL</b>	<b>41</b>

The courses listed below must be taken, in addition to the major, to fulfill teacher licensure requirements. These courses also fulfill general education requirements as outlined:

AREA A	ENGL 101, 102; MATH 103, 215 . . . . .	12
AREA B	RELB, 3 hours; RELB, 3 UD hours; RELT 138, 255 . . . . .	12
AREA C	HIST 154, 175; GEOG 204 . . . . .	9
AREA D	ART 230; MUED 231; SPCH 136 . . . . .	7
AREA E	BIOL 103; CHEM 111; ERSC 105 . . . . .	9
AREA F	SOCI 233; HLED 173, 203 . . . . .	7
AREA G	3 hours PEAC; PETH 463 . . . . .	5
	EDUC 135, 217, 250, 332, 427, 443, 453, 454, 455, 456, 457, 463, 467 . . . . .	32

**Typical Sequence of Courses for  
B.S. IN SOCIAL SCIENCE**

Leading to Licensure 1-8  
(Language Arts Emphasis)

<u>YEAR 1</u>		<u>Semester</u>			<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	EDUC 217	Educational Psychology	2		
BIOL 103	Prin of Biology	3		ENGL 214	Survey of American Lit	3		
EDUC 135	Intro to Education	3		ERSC 105	Earth Science		3	
PSYC 124	Intro to Psychology	3		HIST 154	American History	3		
RELT 138	Adventist Heritage	3		RELT 255	Christian Beliefs	3		
ART 230	Intro to Art Exper		2		General Ed Elective	2		
HIST 175	World Civilizations		3	CHEM 111	Survey of Chemistry	3		
HLED 173	Health and Life		2	GEOG 204	World Geography		3	
PSYC 128	Developmental Psych		3	MATH 103	Survey of Math		3	
SPCH 136	Interpersonal Commun		3	HLED 203	Safety Education		2	
			15	PEAC	PE Activity Elective		1	
			16	SOCI 233	Human Sexuality		3	
							16	
							15	

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st 2nd</u>				<u>1st 2nd</u>	
ENGL 218	Grammar and Usage		2	EDUC 332	Teaching of Reading		2
LIBR 325	Library Mat for Child		3	EDUC 427	Current Issues in Ed		2
MATH 215	Statistics		3	EDUC 453	Mathematics Methods		2
MUED 231	Music and Movement		2	EDUC 456	Lang Arts Methods		2
PEAC	PE Activity Elective		1	PETH 463	PE in Elem School		2
PSYC 230	Prin & Appl Cog Dev		2	PSYC 421	Behavior Management		2
PSYC 336	Lang Aq & Developmnt		2	RELB	UD Elective		3
EDUC 250	Technology in Ed		2	EDUC 443	Classroom Competencies		2
ENGL 315	Intro to Linguistics		2	EDUC 454	Science & Health		2
ENGL 313	Expository Writing			EDUC 455	Bible Methods		2
	OR		3	EDUC 456	Social Studies Methods		2
ENGL 314	Creative Writing			EDUC 463	Small Schools Seminar		1
PEAC	PE Activity Elective		1	ENGL	Literature Elective		3
PSYC 240	Tchg Except Child & Youth		2	HIST 356	Natives & Strangers		3
PSYC 356	Tests & Measurements		2	PSYC 462	Organization & Ldrship		1
RELB	Elective		3				
			<u>15</u>				<u>15</u>

**YEAR 5**

EDUC 467 Enhanced Student Tchg 8

**B.A. IN SOCIAL AND NATURAL SCIENCE STUDIES**

**Leading to Licensure 1-8**

This degree program is required for those who desire to teach the middle and upper elementary grades and who desire a Science/Math emphasis. However, the program is open to anyone.

**Major (B.A.):** Thirty-four hours including BIOL 103, 104; BIOL 424 or PHYS 137; CHEM 111; ERSC 105; HIST 356; LIBR 325; MATH 475; PHYS 137, 155; PSYC 230, 240, 356, and 421.

BIOL 103	Principles of Biology with Lab (BIOL 104)	4
BIOL 424	Issues of Natural Science and Religion or PHYS 317	
	Issues in Physical Science and Religion	3
CHEM 111	Survey of Chemistry	3
ERSC 105	Earth Science	3
HIST 356	Natives and Strangers (W)	3
LIBR 325	Library Materials for Children	3
MATH 475	Mathematics in the Sciences (W)	1
PHYS 137	Introduction to Physics	3
PHYS 155	Descriptive Astronomy	3
PSYC 230	Principles and Applications of Cognitive Development	2
PSYC 240	Exceptional Children and Youth	2
PSYC 356	Tests and Measurements	2
PSYC 421	Behavior Management	2
	<b>TOTAL</b>	<b>34</b>

**Required Cognate Courses:**

MATH 103	Survey of Mathematics	3
MATH 103	College Algebra	3
MATH 121	Trigonometry	2
MATH 215	Statistics	3
	<b>TOTAL</b>	<b>11</b>

## EDUCATION AND PSYCHOLOGY

The courses listed below must be taken, in addition to the major and cognate courses to fulfill teacher licensure requirements and general education requirements as outlined:

AREA A ENGL 101, 102 .....	6
AREA B RELB, 3 hours; RELB 3 UD hours; RELT 138, 255 .....	12
AREA C HIST 154, 174, or 175 (if World History not taken in high school); GEOG 204 .....	6 or 9
AREA D Foreign lang. if less than 2 units earned in high school .	0 or 6
AREA D ART 230; MUED 231; SPCH 135 or 136; ENGL 214 or 215 or 216 .....	10
AREA E Included in the major .....	0
AREA F HLED 173, 203; PSYC 128 .....	7
AREA G CPTR 120; 3 hours of PEAC courses .....	6
EDUC 135, 217, 250, 299, 325, 332, 364, 427, 443, 453, 454, 455, 456, 457, 462, 465, 467, and PETH 463 .....	42
<b>TOTAL</b>	<b>132-141</b>

### Typical Sequence of Courses B.A. IN SOCIAL AND NATURAL SCIENCE STUDIES Leading to Licensure 1-8

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ENGL 101-102	College Composition	3	3	RELT 138	Adventist Heritage	3	
	Foreign Language	3	3	HLED 173	Health and Life	2	
BIOL 103	Prin of Biology	3		GEOG 204	World Geography	3	
BIOL 104	Prin of Biology Lab	1		CHEM 111	Survey of Chemistry	3	
EDUC 135	Intro to Education	3		MUED 231	Music & Movement	2	
MATH 103	Survey of Math	3		MATH 120	College Algebra	3	
PHYS 155	Descriptive Astronomy		3	ERSC 105	Earth Science		3
RELB 125	Teachings of Jesus		3	EDUC 250	Technology in Ed		2
SPCH 135	Intro to Public Spkg		3	MATH 121	Trigonometry		2
PEAC	PE Activity		1	ART 230	Intro to Art Exp		2
		16	16	PSYC 128	Develop Psychology		3
				PSYC 240	Exceptional Child/Youth		2
				EDUC 299	Outdoor Ministries		2
						16	16
<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
HIST 356	Natives & Strangers	3		BIOL 424	Issues in Nat Sci/Rel	3	
LIBR 325	Lib Materials for Child	3		EDUC 332	Teaching of Reading	2	
EDUC 325	Philos Christian Ed	2		EDUC 427	Current Issues in Ed	2	
EDUC 217	Psych Found of Ed	2		EDUC 453	Math Methods	2	
CPTR 120	Intro Comp Based Sys	3		EDUC 456	Language Arts Meth	2	
MATH 215	Statistics	3		PETH 463	PE in Elem School	2	
ENGL*	Literature Elective		3	PSYC 421	Behavior Management	2	
PSYC 230	Prin & App of Cog Dev		2	PEAC	PE Activity Class		1
RELT 255	Christian Beliefs		3	EDUC 443	Classroom Competencies		2
PHYS 137	Intro to Physics		3	EDUC 454	Science & Health Meth		2
PSYC 356	Tests & Measurements		2	EDUC 455	Bible Methods		2
HLED 203	Safety Education		2	EDUC 457	Social Studies Meth		2
PEAC	PE Activity		1	EDUC 462	Organiz & Leadership		1
		16	16	EDUC 463	Small Schools Seminar		1
				EDUC 364	Environmental Ed		2
<b>YEAR 5</b>				MATH 475	Math in the Sciences		1
EDUC 467	Enhanced Student Tchg		8	RELB	UD Elective		3
						16	16

Note: If the student has not taken World History at the high school level, s/he would need to take 3 hours of World Civilizations. This requirement is in addition to the courses listed above.

Note: HIST 154 American History and Institutions I must be taken during the 4th Summer Session following the freshman, sophomore, or junior years.

\*The English Literature elective should be selected from ENGL 214, 215, or 216.

\*\*PHYS 317 or 318 Issues in Physical Science and Religion I (3 hours) may be taken in place of BIOL 424 Issues in Natural Science and Religion (3 hours). BIOL 424 meets first semester and PHYS 3417 meets second semester, alternating with PHYS 318.

**Education Minor: Eighteen hours including EDUC 135, 217, and 240, and six hours of upper division courses. This minor does not automatically lead to either elementary or secondary certification, both of which require a baccalaureate degree and completion of professional education courses for licensure. See explanations beginning on page 158.**

## **TEACHER EDUCATION PROGRAMS**

Southern College has approved teacher certification programs in three levels:

### K-8

B.A. in Psychology Leading to Licensure

### 1-8

B.S. in Social Science Leading to Licensure (Language Arts Emphasis)

B.A. in Social and Natural Science Studies Leading to Licensure (Science and Math Emphasis)

### K-12

Health/Physical Education

Music Education

### 7-12

Bible Education

Business Education with cluster endorsements in:

Accounting

Basic Business

Data Processing

Office Technology

Biology Education

Chemistry Education

English Education

History Education

Mathematics Education

Modern Languages

French

German

Spanish

Physics Education

## Philosophy and Objectives

The Department of Education and Psychology is the unit duly authorized to prepare teachers who meet certification requirements for public, church related, and other private elementary and secondary schools.

The unit subscribes to the philosophy that man was created in the image of God but as a result of willful disobedience sin has marred his God-given attributes and divine likeness. This philosophy recognizes that the object of education is also the object of redemption—to restore in man the image of his maker and bring him back to the perfection in which he was created. Thus the work of redemption is also the work of education, involving the development of the whole person—physical, mental, spiritual, and social.

The teacher education programs in the unit are founded upon the basic assumption that there is a body of information, research, and practice that make up the knowledge base for the teaching profession and that acquisition of this knowledge is a significant part of the teacher's preparation. The unit further confirms the belief that a teacher should be a good example in health, intellect, and character. This program of teacher education is guided by the following statement of mission:

### Statement of Mission

The mission of the Department of Education at Southern College of Seventh-day Adventists is to prepare, primarily for the Seventh-day Adventist school system, professional educators who can function effectively in a culturally pluralistic society and who are dedicated to assisting students in reaching their maximum potential in service to God and man.

### Objectives of the Teacher Education Program

The teacher education program at Southern College of Seventh-day Adventists is designed to help the teacher candidate develop personal values and acquire the knowledge, skills, and competencies needed to function effectively in the teacher's role as a person, a facilitator of learning, a practitioner, and a professional.

### The Teacher As a Person

To promote the personal development of the prospective teacher (which includes physical, aesthetic, intellectual, and moral values) by guidance and advisement through general education which results in:



1. an understanding, appreciation, and enjoyment of man's creative activity in the humanities, social, and natural sciences;
2. a development of personal values that recognize our pluralistic cultural heritage as well as individual worth and integrity and brotherhood of mankind under God;
3. the ability to communicate ideas clearly and effectively in reading, writing, speaking, and listening;
4. an appreciation of the value of health and the importance of health practices in home and family life.

### **The Teacher As a Facilitator of Learning**

To provide a set of educational experiences that will enable the teacher candidate to master the skills in:

5. planning curriculum encounters with learners with appropriate materials and instructional strategies;
6. identifying learning objectives at appropriate levels;
7. using diagnostic and evaluation strategies;
8. handling classroom management and reinforcement strategies;
9. applying principles of human growth and development and theories of learning to classroom situations;
10. integrating faith and learning, along with emphasizing character development;
11. recognizing and encouraging creativity and the maximum possible development of student abilities.

### **The Teacher As a Practitioner**

To maintain a learning environment that is conducive to acquiring the knowledge, skills and competencies that characterize successful practitioners through:

12. enhancement of positive attitude toward self, intellectual curiosity, and independent critical thinking;
13. continuing experimentation and innovation with new pedagogical practices and basic tools of learning;
14. utilization of translatable research;
15. on-campus instruction and off-campus field experiences in public and private schools.

### **The Teacher As a Professional**

To provide a social-emotional climate and opportunities for the development of leadership skills while encouraging attitudes and experiences that foster professional growth by:

16. participating actively in the campus student education association;
17. becoming familiar with the professional organizations and their journals and the nature of the articles reported in them;
18. keeping abreast with developments in education, school reform and legislation;
19. participating in activities that enhance church, home, and community relationships;
20. demonstrating a genuine interest and concern for the physical, mental, social, and spiritual development of the learner.

### **Advisement**

The major goal of the advisement process is to orient the teacher candidate with the total teacher education program, with major emphasis on its three components, namely, general education, professional education, and specialty studies. This is accomplished by the academic advisor as s/he interacts with his/her advisees during advisement sessions.

### **Requirements**

#### **I. ADMISSION PROCEDURES**

Admission to Southern College does not automatically enroll the student into teacher education. There are three stages that students must go through to be fully vested in the teacher education program.

##### **A. Initial Admission to the Teacher Education Program**

Each student accepted at Southern College who indicated that teaching is his/her professional objective is assigned an educational program advisor by the Chair of the Department of Education and Psychology in cooperation with the advisement coordinator in the Records Office. The advisors assist in planning a student's academic program each year and guide their advisees through the stages of the teacher education program. Advisors and advisees should work closely to follow the professional sequence of courses. **Students assume responsibility for making necessary applications, meeting the requirements, and other relevant deadlines.**

The first semester of the sophomore year but not later than the second semester of the sophomore year, the student should file a formal application for initial admission to the teacher education program. Application forms may be obtained from the department secretary in Summerour Hall. Transfer students wishing to enter the Teacher Education Program should file an

application after the first year in residence. Upon application, a file is set up for each applicant containing relevant information to the student's candidacy. To be fully admitted, all the following criteria must be met:

1. Be in residence at the College.
2. Submit an autobiography in your own handwriting containing anecdotal information on why you decided to pursue a career in teaching.
3. Have an overall grade point average of 2.50.
4. Have completed ENGL 101-102 with a minimum grade of C-.
5. Show evidence of physical, mental, and moral fitness.
6. Have successfully completed EDUC 135 with a minimum grade of C-.
7. Have passed the Pre-Professional Skills Test (PPST) which is the entrance competency test required by the State of Tennessee. An enhanced ACT composite score of 22 or above will EXEMPT the student from the PPST.
8. Have taken the 16 Personality Factor Test.
9. Have obtained recommendations from the Vice President of Student Services and their academic adviser.

Applicants meeting the above criteria are recommended by the Education faculty to the Teacher Education Council. The student will be informed in writing as to the status of the application for admission following the action of the Teacher Education Council.

#### B. Candidacy and Retention in Teacher Education

After the applicant has been admitted to the teacher education program, his/her progress will be reviewed by the Candidacy Committee, consisting of the Adviser, a departmental representative, and one elementary or secondary teacher. As a teacher candidate, the applicant will be given an opportunity to interact with the Candidacy Committee in a non-threatening atmosphere. During the interview the candidate can strengthen his/her commitment to teaching or express his/her concerns and questions about the teaching profession.

Retention in the teacher education program is contingent on successful completion of courses attempted and maintenance of the academic standard required for initial admission to the program. Teacher candidates are expected to maintain consis-

tent personal representation of the standards and objectives of Southern College and the teacher education program.

### C. Authorization to do Student Teaching

After acceptance into the Teacher Education program and before the first semester of the senior year, the teacher candidate must file a formal application with the faculty of the Department of Education and Psychology for authorization to do student teaching. Application forms may be obtained from the department secretary in Summerour Hall. A later application may delay the student teaching experience. Student teaching is regarded as the culminating experience of the Teacher Education Program.

The following criteria are considered for each applicant:

1. Completion of all professional education courses
2. Cumulative GPA of 2.50  
Major Studies GPA of 2.50  
Professional Education GPA of 2.50
3. Evidence of good physical and mental health
4. Adherence to standards and objectives of Southern College and the Teacher Education Council

Teacher candidates who meet the above criteria are recommended by the Education and Psychology faculty to the Teacher Education Council. Candidates are informed in writing as to the status of their application following the action of the Teacher Education Council.

## II. APPEAL PROCEDURES

Criteria and standards for admission to teacher education are explicit, but allow for second chance attempts. Courses may be repeated to raise GPA or students may follow the Grievance Procedures found under Academic Policies (page 68). Also, students who do not meet all the criteria required to do Student Teaching may appeal to the Appeals Committee. The applicant who has to take this alternative route will be evaluated on the bases of eminence and outstanding strengths in several other criteria rather than minimal meeting of those criteria. The Appeals Committee makes recommendation to the Teacher Education Council who determines the final action. Any applicant who determines to follow this alternative policy must seek counsel from the Chair of the Department of Education and Psychology.

### Teacher Certification

Certification is the process of granting legal authorization to teach in the public or private elementary or secondary schools of a state or of the Seventh-day Adventist Church based on meeting predetermined

qualifications. Certification has been established to give professional status to qualified teachers and to assure school boards and parents that the teacher is well prepared.

**Who can obtain certification?**

Every student who successfully completes the requirements for teaching in the elementary or secondary school and graduates from Southern College will receive recommendation for certification based upon the following criteria:

- A. Successful completion of student teaching assignment
- B. Satisfactory completion of all credential requirements
- C. Recommendation of major departments
- D. Satisfactory score on the core battery and appropriate specialty area of the National Teacher Examination

Certification is not automatic. The eligible candidate must make the necessary application to the appropriate union conference for denominational certification and to the specific state department of education where the candidate expects to teach. Information regarding certification is available through the certification officer. Since teacher certification regulations are always in the process of change, graduating teacher education candidates are urged to make their applications for certification immediately. If the candidate does not make application within two years for denominational certification, or within three years for Tennessee State certification, s/he will have to take additional courses before certification can be issued.

**What certificates may be obtained?**

- A. Teacher's Certificate (Tennessee)

A certificate is issued on the basis of a minimum of a Bachelor's Degree with a major in at least one subject teaching field and the completion of an approved teacher education program.

- B. Basic Certificate (SDA denominational)

Required by the Department of Education of the North American Division of Seventh-day Adventists. This three-year denominational certificate is issued on the basis of completing the following courses in addition to the above requirements:

REL T 255	Christian Beliefs .....	3 hours
REL T 138	Adventist Heritage .....	3 hours
RELB	Biblical Studies .....	6 hours
HLED 173	Health and Life .....	2 hours

**Requirements for Certification**

Candidates for state certification must complete the appropriate teacher preparation curriculum. This consists of three components: general education, professional education, and major studies.

**A. General Education:**

This component represents that portion of the total teacher education program designed to foster the development of those competencies that are basic to all life's responsibilities and provide intellectual foundation in the liberal arts. Students pursuing a teacher education curriculum must work closely with their advisors for guidance in the selection of general education courses that are appropriate to their individual needs. Relevant courses are listed in this catalog under the seven main areas of the general education requirements, pages 52-56.

**B. Professional Education:**

*Elementary:* Elementary Education courses are included with the degree requirements listed on pages 145-150 of this catalog.  
*Secondary:* The following courses are required for secondary teaching certification. In order to be eligible for certification, students must have a minimum grade point average of 2.50 in the major, professional education, and cumulative.

EDUC 135	Intro to Education	3 hours
EDUC 217	Psychological Foundations of Education	2 hours
EDUC 240	Education for Exceptional Children and Youth	2 hours
EDUC 250	Technology in Education	2 hours
EDUC 356	Tests and Measurements	2 hours
EDUC 427	Current Issues in Education	2 hours
EDUC 432	Reading in Content	2 hours
EDUC 437	Curriculum and General Methods, Grades 7-12	2 hours
EDUC 438	Curriculum and Content Methods	2 hours
EDUC 462	Organization and Leadership	1 hour
EDUC 468	Enhanced Student Teaching	8 hours
	<b>TOTAL</b>	<b>28 hours</b>

**C. Major Studies:**

Major studies requirements: Preparation for teaching in the elementary school requires a B.A. in Psychology leading to licensure K-8, B.S. in Social Science leading to licensure 1-8, or a B.A. in Social and Natural Science Studies leading to licensure 1-8. See listing of course sequence on pages 145-150 of this bulletin.

The following departments offer majors that can be combined with professional education courses resulting in licensure to teach:

Biology	Mathematics
Business	Modern Languages
Chemistry	(French, German, Spanish)
Education & Psychology	Music
English	Physics
Health/Physical Education	Religion
History	

Students are to complete the degree requirements as specified by their chosen major plus the professional education courses as listed under B above.

**D. Miscellaneous Information Relative to Teacher Training:**

1. Because of time commitments during the student teaching experience, no additional courses may be taken.

The Education faculty will endeavor to provide the opportunity for student teachers to teach in off-campus student teaching centers.

It is expected that any student entering student teaching will have completed all other courses.

2. Correspondence credit will be accepted to the extent of one-fourth of the credit required for the certificate provided that no more than four semester hours in education are applied on the professional education requirement. If personal circumstances demand a correspondence course, a petition must be filed with the Department of Education and Psychology and its approval obtained before registering for the course. The course must be completed and the grade filed in the Records Office before student teaching is begun.
3. A major is not always required for additional endorsements. A minor may be acceptable as a second field for SDA certification.
4. Students should contact the Department of Education and Psychology for information on specific requirements in the area(s) of endorsement sought.

**1. PROGRAM FOR ELEMENTARY ENDORSEMENT  
FOR INDIVIDUALS MEETING REQUIREMENTS  
FOR SECONDARY CERTIFICATION**

Eighteen semester hours listed below are required. A minimum of 12 semester hours from these courses must be completed after the date the applicant became eligible for the original certificate endorsed in a subject area in grades 7-12 or in a subject area in grades K-12. Grades must be C- or better.

A. Required Courses:

EDUC 445	Reading and Language Arts . . . . .	3
EDUC 453	Mathematics Methods in the Elementary School . . . . .	2
EDUC 459	Bible and Social Studies Methods . . . . .	3

B. Six semester hours to include two of the following three areas:

ART 230	Intro to Art Experiences . . . . .	2
EDUC 454	Science and Health Methods in the Elementary School . . . . .	2
MUED 231	Music and Movement . . . . .	2
PETH 463	Physical Education in the Elementary School . . . . .	2

C. Two semester hours must be in Education of Exceptional Children if not previously successfully completed. If Education of Exceptional Children or any of the above required courses in Section A or Section B have been previously completed, the remaining semester hours must be taken from the following courses:

- |                          |              |
|--------------------------|--------------|
| a. Children's Literature | c. Health    |
| b. Tennessee History     | d. Geography |

D. Two to three semester hours of student teaching.

2. PROGRAMS FOR SECONDARY ENDORSEMENT FOR INDIVIDUALS MEETING REQUIREMENTS FOR ELEMENTARY EDUCATION CERTIFICATION

Ten semester hours of credit after the date the original certificate was earned. Six semester hours of the ten must be in specialized professional education appropriate to grades 7-12 and must include a minimum of 2 semester hours of appropriate methods. The credit for at least one area of endorsement in grades 7-12 may have been earned at any time prior to the application for adding the endorsement. **Grades must be C- or better.**

1. Meet the State of Tennessee requirements for endorsement in at least one teaching field (this will vary from 18 to 51 hours).
2. A minimum of six semester hours of professional education including:
  - A. EDUC 437 or EDUC 438.
  - B. Any other courses designated by the Department of Education and Psychology.
3. Four semester hours of electives.



**3. APPROVED PROGRAM IMPLEMENTATION  
BY STATE BOARD OF EDUCATION**

Procedures for securing Southern College's recommendation for state certification of students from institutions located out of the state:

1. Application is made to the Teacher Certification Officer through the Records Office accompanied by an official transcript and a recommendation from the applicant's school.
2. Assessment of deficiencies will be made by the Teacher Certification Officer and approved by the Department of Education and Psychology.
3. The Teacher Certification Officer will inform the applicant of any deficiencies.
4. A fee of twenty-five dollars (\$25) will be charged for this service, to be refunded upon completion of courses at Southern College.

**EDUCATION**

**EDUC 134. Principles of Christian Education 2 hours**

An overview of the purposes, administrative organizations and operations of school systems, identified as Christian in purpose, with particular emphasis on the Seventh-day Adventist educational system.

**EDUC 135. Introduction to Education 3 hours**

Required of all students seeking elementary or secondary licensure. Designed to acquaint the student with the experiences, qualifications, and duties of the classroom teacher. Students will spend at least twenty hours during the semester observing and participating in local elementary or secondary classrooms. Class discussion will include: teaching as a profession, history of education, and philosophy and aims of Seventh-day Adventist and public education.

**EDUC 217. Psychological Foundations of Education (F-1) 2 hours**

A study of the processes of human growth, development, and learning, joined to the practical application of this knowledge to teaching. Observation and analysis of appropriate child and adolescent behaviors are incorporated in the class activities.

**EDUC 240. Education for Exceptional Children and Youth 2 hours**

A course in the education of exceptional children in the regular classroom. It includes a study of the wide range of factors contributing to the exceptionality, the identification of exceptional children and youth by the classroom teacher and the consequent classroom implications.

**EDUC 250. Technology in Education (G-2) 2 hours**

An introduction to applications of technology which will assist in efficient management and effective learning within the school environment. Experience will be gained in the development and use of audio-visual materials including computers and educational software.

- EDUC 299. Outdoor Ministries** **2 hours**  
This course is designed to assist teachers and youth leaders in the development of relationships between children and nature for the purpose of enriching the spiritual life of children and youth. The student will learn to plan object lessons from nature, leadership in pathfinding, summer camp ministries and how to enliven Sabbath School programs with nature. A variety of laboratory skills will be required in area school and church programs. A knowledge of nature is suggested but not required.
- EDUC 325. Philosophy of Christian Education (W)** **2 hours**  
A study of the scriptural principles and philosophic base of Christian education as expounded by E. G. White and implemented by the Seventh-day Adventist Church.
- EDUC 332. Teaching of Reading** **2 hours**  
Prerequisite: Admission to Teacher Education.  
Survey of the materials and methods used in teaching reading in the elementary grades. It emphasizes the approaches to teaching reading including phonics instruction. The course involves approximately three hours of supervised practicum along with one hour of lecture each week.
- EDUC 333. Developmental Reading (W)** **2 hours**  
Prerequisite: EDUC 332 and Admission to Teacher Education.  
A detailed study of the development of vocabulary, comprehension, and study/reference skills in the elementary grades. Causes of reading problems, assessment procedures, and organization of a sound reading program are stressed. Observation and assessment including diagnosis and prescriptive remediation of selected students required.
- EDUC 356. Tests and Measurements** **2 hours**  
Prerequisite: Admission to Teacher Education or permission of department chair.  
An evaluation of classroom learning and teacher-made tests as well as an overview of selected ability, achievement, interest, and personality tests. Principles of effective test construction and selection are studied, particularly as they apply to sampling, validity, reliability, and norming. In addition to theory, twenty (20) hours of clinical and field experiences are required.
- EDUC 364. Environmental Education** **2 hours**  
This course is designed to give "hands-on" learning in the use of the outdoor classroom. Recent trends in methods, materials, strategies, laboratory techniques, assessment, and professional guidelines for the elementary, junior, and senior high school curriculum will be covered. An extended weekend field experience will be required as a part of the class project. There will be a charge for the trip.
- EDUC 421. Behavior Management** **2 hours**  
Prerequisite: Admission to Teacher Education.  
Examines basic principles of discipline, reviews a variety of philosophical approaches to discipline, and identifies and role plays practical procedures for administrators and practitioners by which to attain and maintain acceptable management practices. In addition, the course seeks to probe the concept of discipline as a way of life in which the individual is assisted in developing a satisfactory and fulfilling lifestyle. This course requires 15 hours of clinical experiences and five (5) hours of relevant experiences. (Credit not permitted if PSYC 421 has been taken.)

**EDUC 426. Kindergarten Methods 3 hours**

Prerequisites: EDUC 135, 217, 240 and admission to Teacher Education.

Designed to give the student an understanding of administration, program planning, materials, and strategies for teaching in preschool. Emphasis is given to application of the principles of child development and learning to promote harmonious physical, mental, social, and emotional growth. Observation and participation required.

**EDUC 427. Current Issues in Education (F-1), (W) 2 hours**

Prerequisite: Admission to Teacher Education.

An analysis of social and philosophical forces influencing American education today, with special emphasis on the schools as social institutions. (Not open to students who already have credit for EDUC 425.)

**EDUC 432. Reading in Content 2 hours**

Prerequisite: Admission to Teacher Education.

This course will help teachers focus on those reading skills essential for the needs of each student in the content area. It will include modeling the process necessary for reading and learning concepts in a subject area and instructing students so they can become independent learners. The program elements with procedures will be applied in classroom settings.

**EDUC 437. Curriculum and General Methods, Grades 7-12 2 hours**

Prerequisite: Admission to Teacher Education.

This course will include the secondary curriculum content—factors that influence change, the most important current practices, and critical curriculum issues facing educators today. It will provide general knowledge of current teaching methods, strategies of learning, and evaluation procedures, as set forth in the Tennessee Institutional Model. Ten hours of field-based experience in special education and multi-cultural education are required.

**EDUC 438. Curriculum and Content Methods, Grades 7-12 2 hours**

Prerequisite: Admission to Teacher Education.

The areas which offer methods courses are: Bible, Business (Office Administration), English, Health and Physical Education, History, Mathematics, Modern Languages (French, German, Spanish), Music, Science (Biology, Chemistry, and Physics).

Directed observation in selected schools and attendance at local professional meetings are considered part of this course.

Among the student's responsibilities will be the collection and organization of a file of teaching materials, the preparation of lesson plans in harmony with the Tennessee Instructional Model, and evaluation of textbooks. Ten hours of clinical and ten hours of field experiences in selected schools and attendance at selected local professional meetings are considered a part of the course.

**EDUC 443. Classroom Competencies 2 hours**

Prerequisite: Admission to Teacher Education and completion of at least two upper division methods courses.

This course is based upon current learning research and provides opportunities for designing curriculum and planning for instruction. This course must be taken in conjunction with other methods courses.

**EDUC 453. Mathematics Methods  
in the Elementary School** **2 hours**

Prerequisite: Admission to Teacher Education.

Includes curriculum organization, materials, methods, and instructional aids with emphasis on multi-grade classrooms. Attention is given to the sequential skill development and to changes in the mathematical contents, technology and pedagogy. Observation and micro-teaching required.

**EDUC 454. Science and Health Methods  
in the Elementary School** **2 hours**

Prerequisite: Admission to Teacher Education.

Includes curriculum organization, methods, materials and equipment with emphasis on multi-grade classrooms. Techniques and materials are examined using basic principles of the scientific method. Observations, micro-teaching, and a field trip are required.

**EDUC 455. Bible Methods in the Elementary School** **2 hours**

Prerequisites: EDUC 135, 217, 240 and admission to Teacher Education. For students graduating under catalogs prior to 1991-92: EDUC 125, 134, 217, 240.

A course to develop teaching objectives, materials, and strategies in Biblical education with emphasis on the Christ-centered curriculum and integration of faith and learning. Special attention will be given to multi-grade classrooms. Observation and micro-teaching required.

**EDUC 456. Language Arts Methods  
in the Elementary School** **2 hours**

Prerequisites: EDUC 135, 217, 240 and admission to Teacher Education. For students graduating under catalogs prior to 1991-92: EDUC 125, 134, 217, 240.

Curriculum organization, methods, materials, and instructional aids with emphasis on multi-grade classrooms. Strategies for instruction in writing, spelling, grammar, literature, and composition are developed. Observation and micro-teaching required.

**EDUC 457. Social Studies Methods  
in the Elementary School** **2 hours**

Prerequisites: EDUC 135, 217, 240 and admission to Teacher Education. For students graduating under catalogs prior to 1991-92: EDUC 125, 134, 217, 240.

A course to develop teaching objectives, instructional strategies, materials, and methods when integrating social studies, geography, and the worldwide mission of the church. Special attention will be given to multi-grade classrooms. Observation and micro-teaching required.

**EDUC 460. Practicum in Special Education** **1 hour**

Prerequisite: Admission to Teacher Education.

Provides opportunity for the prospective teacher to develop appreciation for children who require special modalities for learning. Field experiences will permit interaction with students with various exceptionalities. A 50 percent tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**EDUC 461. Practicum in Multicultural Education 1 hour**

Prerequisite: Admission to Teacher Education.

A course designed to develop a global perspective in the teacher. Opportunities will be given for interaction in an educational setting with students from varied cultural and minority groups. Adaptation of teaching methods and content to students' backgrounds will be prominent in the field experiences. A 50 percent tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**EDUC 462. Organization and Leadership 1 hour**

Prerequisite: Admission to Teacher Education.

Required by all teacher education candidates. Topics will include: Legal and Ethical Aspects, Financing, The Role of the School Board, and Governance and Administration in Schools. These topics will cover both public and Seventh-day Adventist perspectives.

**EDUC 463. Small Schools Seminar 1 hour**

Prerequisite: Admission to Teacher Education.

Required of all candidates seeking licensure K-8 or 1-8. Topics will include the specialized needs of the multi-grade teacher in administration, record keeping, curriculum management, and organization in small schools.

**EDUC 465. Pre-Session Student Teaching 2 hours**

Prerequisites: Admission to Student Teaching and completion of all other requirements.

This course is offered for qualified students needing experience in the "start up" dynamics of elementary and secondary programs. It involves 80 clock hours of on-site work with a qualified supervising teacher for one week prior to the fall semester through the first week of school. In consultation with the director of practice teaching, students are required to arrange for their own placement and submit a course application to the Education department office by May 1.

**EDUC 466. Enhanced Student Teaching K-8 8 hours**

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed for part of the semester in a kindergarten setting. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with Southern College faculty, who assume responsibility for the final summative evaluation. No other courses may be taken during student teaching.

**EDUC 467. Enhanced Student Teaching 1-8 8 hours**

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed in a different classroom each nine-week period. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. No other classwork may be taken during student teaching.

**EDUC 468. Enhanced Student Teaching 7-12** 8 hours

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed in a different classroom for each nine-week period. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. Students may not be enrolled in any other classwork during this semester.

**EDUC 469. Enhanced Student Teaching K-12** 8 hours

Prerequisite: Admission to Student Teaching and completion of all other requirements.

(This course is for music and physical education majors only.)

Designed as a full-time practicum for one semester. Students are placed in an elementary (K-6) setting for a nine-week period and in a secondary (7-12) setting for a second nine-week period. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. Students may not be enrolled in any other courses during this semester.

**EDUC 475. Workshop in Education (Methodology)** 1-3 hours

Experienced teachers are given opportunity to work under supervision on curriculum problems. Credit is also available for preservice students as an elective.

**EDUC 485. Workshop in Education (Content)** 1-3 hours

Experienced teachers are given opportunity to develop new skills and gather new facts in content fields at various levels. Credit is also available for preservice students as an elective.

**EDUC 295/495. Directed Study** 1-2 hours

Prerequisite: Admission to Teacher Education.

This course permits the advanced student with adequate preparation to pursue independent study in special fields. This course may be repeated for credit.

**PSYCHOLOGY****PSYC 124. Introduction to Psychology (F-1)** 3 hours

A beginning course in the basic principles and concepts of psychology. Special attention is given to provide an exposure to a wide variety of human behaviors, which may include but are not limited to: sensation, perception, learning, memory, thinking, development motivation and personality. Included in this course are twenty hours of active learning experience, which may include field experiences outside the classroom.

**PSYC 128. Developmental Psychology (F-1)** 3 hours

A study of life from prenatal through the adult years. Emphasis is placed on the emotional, social, physical, and psychological development of the individual. This course requires five hours of field experience. The choices of field experience facilities may be limited due to the number of students enrolled in the semester.

**PSYC 217. Psychological Foundations of Education (F-1) 2 hours**

A study of the processes of human growth, development, and learning, joined to the practical application of this knowledge to teaching. (Credit not permitted if EDUC 217 has been taken.)

**PSYC 224. Social Psychology (F-1) 3 hours**

A study of human behavior as affected by group living. Dynamics of groups, social roles, communication, and mass behavior are focuses of consideration. Credit applicable for either psychology or sociology emphasis, but not for both.

**PSYC 230. Principles and Application of Cognitive Development 2 hours**

Prerequisites: PSYC 124, or EDUC 217, or permission of instructor.

A study of the psychological process by which humans acquire knowledge. Perception, reasoning, problem solving, and language skills will be analyzed. Emphasis will be placed on the applications of cognitive processes to the teaching/learning environments. The practical application of the knowledge learned from cognitive theories is applied to teaching and ten hours of clinical experience is required.

**PSYC 233. Human Sexuality (F-1 or F-2) 3 hours**

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting. (Credit not permitted if SOCI 233 has been taken.)

**PSYC 240. Psychology of Exceptional Children and Youth 2 hours**

A survey of exceptional children and youth. It includes a study of the wide range of factors contributing to the exceptionality, the identification of exceptional children and youth, and the educational and caretaking consequences.

**PSYC 315. Abnormal Psychology (F-1) 3 hours**

Prerequisite: PSYC 124 or 128.

A study of the etiology of pathological behavior and the factors of good adjustment and mental health. Attention is paid to several continuing or recent controversial issues in the field of psychopathology. Included in this course are twenty hours of active learning experiences, ten of which may include field experiences outside the classroom.

**PSYC 326. Physiological Psychology 3 hours**

Prerequisite: Three hours in Biology.

This course focuses on the physiological substrates of behavior. Specific attention is given to the physiological basis of learning and motivation, sensation, emotion, neural encoding, and sleep. Further analysis of the structural and functional organization of the brain and nervous system.

**PSYC 336. Language Acquisition and Development 3 hours**

Prerequisite: PSYC 124 or 128.

A study of the major theories of language acquisition, with emphasis on language development beginning at birth and extending through middle childhood. This course incorporates ten hours of active learning experiences, five hours of which require field experiences outside the classroom.

**PSYC 349. Aging and Society (F-1) (W) 3 hours**

See SOCI 349 for course description.

**PSYC 356. Tests and Measurements 2 hours**

See EDUC 356 for course description. (Credit not permitted if EDUC 356 has been taken.)

**PSYC 357. Psychological Testing 3 hours**

Prerequisite: PSYC 124 and MATH 215 or approval of Instructor.

This course is designed to introduce the student to the principles of testing, particularly as it relates to the practice of psychology. Specifically, the course examines the purpose of individual assessment of ability, aptitude, achievement, interest, and personality. Theory and basic concepts underlying the individually administered and group tests will be evaluated. Non-standardized tests and other techniques for psychological assessment will also be addressed.

**PSYC 367. Adolescent Psychology (F-1) 2 hours**

The determinants and implications of behavioral characteristics and developmental patterns during adolescence. Content will include the psychological and social dynamics underlying the attempted resolution of crises and tasks specific to adolescents in modern society.

**PSYC 377. Fundamentals of Counseling (F-1) (W) 3 hours**

Recommended: One course in Psychology.

This is an introduction to the major theories and practices of individual counseling. The dynamics of the helping relationship are analyzed. In addition to theory, twenty hours of clinical and field experiences are required.

**PSYC 384. Experimental Psychology 3 hours**

This course is designed to introduce the student to the principles and practices of experimentation in the field of psychology. Specifically, this course focuses on the true experiment. In addition, it will familiarize the student with the quasi experiment and the issues involved in the use of human and animal subjects in research.

**PSYC 415. History and Systems of Psychology (F-1) (W) 3 hours**

Prerequisite: PSYC 124.

Philosophical and historical backgrounds of psychology leading to a consideration of contemporary schools and systems of psychology.

**PSYC 421. Behavior Management 2 hours**

See EDUC 421 for course description. (Credit not permitted if EDUC 421 has been taken.)

**PSYC 432. Industrial/Organizational Psychology 3 hours**

A study of human behavior in industries and organizations. Major theories, issues, research, and methods will be introduced. Emphasis is given to acquainting students with the possible applications of psychology to the fields of business and organizational management.

**PSYC 434. Research Design and Practice (W) 3 hours**

Prerequisite: MATH 215 or permission of instructor.

A survey of various methods and procedures in research as applied to the fields of education and psychology. Emphasis will be placed on defining and delimiting a problem, writing hypothesis and planning for the analysis of data using appropriate statistical design. Computer-aided analyses of simulations and practice exercises will be used.



**PSYC 465. Topics in Psychology (F-1) 3 hours**

Selected topics in psychology as chosen from such areas as: group dynamics, psychological assessment, individual differences, psychology of women, sensation and perception, etc. This course may be repeated for credit with an appropriate change in topics.

**PSYC 479. Family Counseling 3 hours**

Prerequisite: PSYC 377.

A study of the psychology of the family with an emphasis on individual characteristics and how to direct persons to make changes towards more effective interactions within their family.

**PSYC 485. Psychology Practicum 1-2 hours**

Prerequisite: Approval of instructor.

Supervised volunteer/work experience in related fields of psychology. At least forty clock hours of work experience are required for each semester hour of credit. Practicum arrangements are to be completed by the student in advance of registration after consulting with the instructor. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**PSYC 295/495. Directed Study 1-2 hours**

Prerequisite: Approval by department.

This course permits the student with adequate preparation to pursue independent study in special fields. The area of study will appear on the transcript. Directed study arrangements are to be completed by the student in advance of registration after consulting with the instructor. Procedures and guidelines are available from the department. May be repeated for credit.

(F-1), (W) See pages 52-56 for explanation of General Education requirements.

**ENGR 151. Architectural Drafting 3 hours**

See TECH 151 for course description.

# ENGINEERING STUDIES

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Chair: Lawrence Hanson  
Faculty: John Duricheck, Henry Kuhlman

Southern College offers the first two years of a baccalaureate degree in engineering. Upon completing the two-year engineering studies program, students transfer to the Walla Walla College School of Engineering, with which Southern College is affiliated, for the final two years. Southern College awards an Associate of Science degree in Engineering Studies. Walla Walla College, located in Washington State, awards a Bachelor of Science in Engineering degree with concentrations in civil, electrical, and mechanical engineering and a pre-professional Bachelor of Science degree in bioengineering.

The WWC School of Engineering offers a high quality program that is fully accredited by the Accreditation Board for Engineering and Technology—the only nationally recognized organization which accredits engineering programs. It has an enrollment of approximately 250 students, many of whom are transfer students from affiliated Seventh-day Adventist colleges.

The Southern College affiliation with Walla Walla College makes the transition to the final two years of the baccalaureate engineering program essentially the same as if the first two years were taken there. Even though transfer to Walla Walla College is simpler than to a non-affiliated school, the Southern College engineering studies program is compatible with baccalaureate engineering programs of most colleges and universities.

## PROGRAM IN ENGINEERING STUDIES

**Major (A.S.):** Thirty-three hours consisting of ENGR 149, 150, 211, 212; MATH 181, 182, 200, 218; PHYS 211-212, 213-214, 311-312. Required cognates: CHEM 151-152; CPTR 131.

PSYC 434 Research Design and Practice (W) 3 hours  
Prerequisite: MATH 218 or permission of instructor  
A survey of research methods and procedures as applied to the field of psychology and education. Emphasis will be placed on defining and delimiting problems, writing hypotheses and planning for the quality of data using appropriate statistical design. Conceptual and practical analysis of qualitative and quantitative data will be used.

Typical Sequence of Courses for  
A.S. ENGINEERING STUDIES

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101	College Composition		3	ENGR 211-212	Engineering Mech	3	3
ENGR 149	Mechanical Drawing	2		MATH 218	Calculus III	3	
ENGR 150	Computer-Aided Draft		3	MATH 315	Diff Equations***		3
CHEM 151,152	General Chemistry	4	4	PHYS 211-212	General Physics	3	3
MATH 200	Elem Linear Algebra		2	PHYS 213-214	General Physics Lab	1	1
MATH 181,182	Calculus I, II*	4	3	PHYS 311-312	Gen Phys Calc Appli		2
RELB 125	Life & Teachings**		3	SPCH 135	Intro to Pub Spking		3
CPTR 131	Fund of Prog I		3	HIST 174	Survey of Civ**		3
	Area G, PE Activity		1	PSYC 124	Intro to Psych**		3
		16	16	RELT 373	Christian Ethics**		3
						16	18

\*Engineering students are expected to have taken a year-long precalculus course (beyond Algebra II) in high school. Those who haven't should take a college precalculus course at home during the summer.

\*\*With the approval of the engineering adviser, certain other general education courses may be substituted for these courses.

\*\*\*Not required for the A.S. degree.

The suggested sequence of courses listed above is demanding and difficult to complete in four semesters. Most students are advised to carry sixteen or fewer credits per semester. This can be done and the sequence completed in two years if some courses are taken during summer sessions.

(See pages 48-50 and 52-56 for general degree and general education requirements.)

The total number of hours for the A.S. degree in engineering studies is sixty-four. The suggested sequence of courses given above meets all major and general education requirements. It closely parallels the first two years of engineering studies at Walla Walla College.

Students who plan to continue their education at an engineering school other than Walla Walla College should take that school's catalog to the engineering adviser for guidance in selecting general education courses.

ENGINEERING COURSES

**ENGR 149. Mechanical Drawing (G-2) 2 hours**  
See TECH 149 for course description.

**ENGR 150. Computer-Aided Drafting (G-2) 3 hours**  
Prerequisite: ENGR 149 or equivalent.

An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods laboratory each week. Lecture as announced by the instructor. (Spring)

**ENGR 151. Architectural Drafting 3 hours**  
See TECH 151 for course description.

**ENGR 211. Engineering Mechanics: Statics** **3 hours**

Pre- or corequisites: MATH 182, PHYS 211, 213.

Two and three-dimensional equilibria employing vector algebra; friction; centroids and center of mass, virtual work, and moments of inertia. (Fall)

**ENGR 212. Engineering Mechanics: Dynamics** **3 hours**

Pre- or corequisites: MATH 218, PHYS 212, 214, 311-312.

One and two-dimensional kinetics and kinematics of rigid bodies by vector calculus; dynamics of rotation, translation and plane motion; relative motion; work and energy; impulse and momentum. (Spring)

**ENGR 214. Circuit Analysis** **3 hours**

Pre- or corequisites: MATH 218, PHYS 212, 214, 311-312.

Circuit variables and parameters; Kirchoff's laws and circuit solution; sinusoidal steady-state; phasors and impedance; frequency characteristics; Thevenin's theorem and maximum power theorem; transients and complete response. Laboratory covers basic electrical measurements using DC and AC meters, potentiometers, recorders, and bridges. (Currently not being offered)

**ENGINEERING COURSES**

**ENGR 148. Mechanical Drawing (2)**

See TECH 149 for course description.

**ENGR 150. Computer-Aided Drafting (2)**

Prerequisite: ENGR 149 or equivalent.

An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cal Key. Six periods laboratory each week. Lectures as announced by the instructor. (Spring)

3 hours

**ENGR 181. Architectural Drafting**

See TECH 181 for course description.

# ENGLISH AND SPEECH

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Chair: David C. Smith

Faculty: Ann Clark, Don Dick, Jan Haluska, Pam Harris, John Keyes, Wilma McClarty, Helen Pyke, Lynn Sauls

Adjunct Faculty: Rosemary Dibben, Bernice Gerhart, Bobbie Jane Van Dolson

The English and Speech Department offers two categories of classes that view man's search for truth and its most convincing expression through a Christian perspective. *Language and speech* courses aid students in developing ease, confidence, and competence in the art of effective communication and in acquiring knowledge of the science of language; *literature* courses develop the ability to discern and appreciate the best literary works.

Students majoring in English must meet the specific requirements of the English Department (below) and the General Education program (pages 52-56). For English, intermediate foreign language is required.

## ASSESSMENT OF MAJORS

As part of a departmental assessment process, senior English majors complete a writing portfolio analysis, an oral exam, a self-analysis, and a written evaluation of departmental programs. Results provide information used to improve departmental programs; graduation eligibility is not affected. Majors are informed about the purpose and nature of these assessment activities when they enter the English program.

## PROGRAMS IN ENGLISH LANGUAGE AND LITERATURE

**Major (B.A.):** Thirty hours excluding Basic Writing and College Composition, but including ENGL 214, 215, 216, 218, 315, 445, and 313 or 314; plus nine elective hours from ENGL 326, 335, 336, 337, 338, 444, 323 or 425, 313 or 314. Majors may substitute a journalism writing class or an English topics course for one English elective. Required cognates: SPCH 135, HMNT 205, HIST 374, and intermediate foreign language. Recommended for teaching majors: JOUR 205 News Reporting or JOUR 174/475 Journalism Workshop. Students planning to obtain educational certification will need to include the required professional education courses and additional general education requirements in their program as outlined in the Education/Psychology section of this catalog. English majors who minor in journalism or public relations are eligible for internships through the Journalism Department.

Typical Sequence of Courses for  
**B.A. ENGLISH**  
 (Non-Teaching)

YEAR 1	Semester	YEAR 2		Semester			
		1st	2nd		1st	2nd	
ENGL 101-102	College Composition	3	3	ENGL 214	Survey American Lit	3	
ENGL 216	Approaches to Lit		3	ENGL 215	Survey of English Lit		3
ENGL 218	Grammar and Usage	3		ENGL 315	Intro to Linguistics		3
	Area B, Religion	3		HMNT 205	Arts and Ideas	3	
	Area D-1, Inter Foreign Lang	3	3		Area F, Beh/Fam Sci	2	
	Area D-4, Intro to Pub Speaking	3			Area B, Religion		3
	Area E, Nat Sci		3		Area C-1, History	3	
	Area G-3, Rec Skls	1			Area E, Nat Science		3
	Minor		3		Area G-2, Prac Skls (Typing Suggested)	3	
		16	15		Minor	3	3
						17	15
YEAR 3	Semester	YEAR 4		Semester			
		1st	2nd	1st	2nd		
ENGL 314	Creative Writing OR UD Literature		3	Area D, UD Lit	3		
ENGL 445	World Literature	3		Area C-2, Pol Sci/Economics		3	
ENGL 313	Expository Writing OR UD Literature	3		Area G-1, Cre Skls			2
			3	OR			
HIST 374	History of England	3		Area G-3, Rec Skills			3
	Area A-2, Math	3		Area B, UD Religion		3	
	Area F, Health Sci		2	Minor or Elective	6	16	
	Area B, Religion		3		17	16	
	UD Literature		3				
	Minor or Elective	3	3				
		15	14				

**NOTE:** Students planning to obtain educational certification will need to include the required professional education courses and additional general education requirements in their program.

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Typical Sequence of Courses for  
**B.A. ENGLISH**  
 (Teaching Major)

YEAR 1	Semester	YEAR 2		Semester			
		1st	2nd		1st	2nd	
ENGL 101-102	College Composition	3	3	ENGL 214	Survey of Amer Lit	3	
ENGL 216	Approaches to Lit		3	ENGL 215	Survey of Engl Lit		3
ENGL 218	Grammar and Usage	3		ENGL 315	Intro to Linguistics		3
EDUC 135	Intro to Education	3		EDUC 217	Psychol Found of Ed	2	
HLED 173	Health & Life	2		EDUC 240	Ed for Excep Ch/Yth	2	
RELT 138	Adventist Heritage	3		HMNT 205	Arts and Ideas	3	
SPCH 135	Intro to Pub Spkg		3	RELT 255	Christian Beliefs		3
	Area D-1, Inter Foreign Lang	3	3		Area A-2, Mathematics		3
	Area E, Nat Sci		3		Area C-1, History		3
		17	15		Area E, Natural Sci		3
					Area G-3, Rec Skills		1
					Minor	3	
						16	16

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
EDUC 356	Tests & Measurements	2		ENGL 445	World Literature	3	
EDUC 250	Technology in Educ		2	RELB	Area B, Religion	3	3
ENGL	UD Literature	3		EDUC 421	Behavior Management	2	
ENGL 313	Expository Writing			EDUC 427	Current Issues in Ed	2	
	OR	3		EDUC 432	Reading in Content		2
	UD Literature			EDUC 438	Curric & Content Meth		2
EDUC 314	Creative Writing			EDUC 462	Organiz & Ldrship		1
	OR		3	SOCI 223	Marriage & Family		2
	UD Literature				Area C-2, Pol Sci/Econ	3	
HIST 374	History of England	3			Area G-3, Rec Skls		1
	UD Literature		3		Minor	3	3
LIBR 425	Library Mat/Yng Adlt	2				16	14
	Area G-3, Rec Skls		1				
	Minor	3	6				
		16	15				
YEAR 5		Semester				Semester	
		1st	2nd			1st	2nd
EDUC 468	Enhanced Stud Tchg		8				

\*Any amount over 16 hours is considered an overload. Students electing a teaching major should consider at least one summer session.

**Minor:** Eighteen hours, excluding Basic Writing and College Composition, including ENGL 214, 215, 216, 218, 313 or 314, and three upper division hours of electives.

## ENGLISH LANGUAGE AND COMPOSITION

### ENGL 099. Basic Writing 3 hours

Prerequisite: Students whose first language is not English must have a score of 90 or above on the Michigan English Language Institute Test.

Focuses on development of those writing skills necessary for successful entry into ENGL 101. Students whose English ACT score is 16 or below are required to register for this class. Students successfully completing this course will earn three institutional elective credits and may enroll in ENGL 101. This course does not count toward an English major or minor. (Fall)

### ENGL 101-102. College Composition (A-1) 3,3 hours

ENGL 101 is prerequisite to ENGL 102.

A two-semester course focusing strongly on the writing process, especially revision. ENGL 101 emphasizes specific writing skills and principles which readily apply to most writing tasks. Students write expository essays organized according to prescribed modes. ENGL 102 reinforces the proficiencies developed in ENGL 101 while focusing on rhetorical and reasoning skills which apply to various persuasive and research writing activities. Students write persuasive essays and a research paper. This course does not count toward an English major or minor. (Fall, Spring, Summer)

**ENGL 218. Grammar and Usage****3 hours**

A study of traditional descriptive grammar, standard American English usage rules, and an introduction to structural analysis. The grammar and usage sections are individualized and use a programmed text. Classroom instruction includes several different diagramming techniques and educational theory about the teaching of grammar. Designed especially for English majors, minors, and prospective language arts teachers, this course is also open to others who wish to enhance their knowledge of standard usage and strengthen skills in grammar analysis. (Fall)

**ENGL 313. Expository Writing (G-2) (W)****3 hours**

A workshop approach that provides practical instruction in expository writing for all disciplines. Emphasis on inventional procedures, connecting substance and structure, research, revision, persuasion, and adapting material and tone for a specific audience. Involves reading and analysis of a wide variety of writing. Helpful for all students wishing to improve their writing skills, including students headed for graduate school or professional fields like business, medicine or law where writing is important. Writing topics may be chosen from a student's major field of study, and students will work on producing publishable material for their particular field. Tailored to the level, needs, and interests of students who enroll. (Fall)

**ENGL 314. Creative Writing (G-1) (W)****3 hours**

Prerequisite: Three hours of literature or permission of instructor.

A study of the principles, techniques, and kinds of personalized writing, providing the student with opportunity to develop his own style and to find possible markets for his manuscripts that may be worthy of publication. (Spring)

**ENGL 315. Introduction to Linguistics****3 hours**

A survey of historical, social, psychological, biological, and pedagogical aspects of the English language.

Primary topics include: (1) history of the English language, (2) grammatical aspects of language (including phonetics, phonology, morphology, syntax—particularly transformational-generative grammar, and semantics), (3) social aspects of language (including dialects, pidgins, and creoles; slang and jargon; sexism; and writing compared with speaking), (4) psychological-biological aspects of language (including acquisition, and critical age hypotheses), (5) applications of linguistics to teaching. (Spring)

**LITERATURE****ENGL 214. Survey of American Literature (D-2)****3 hours**

Prerequisite: ENGL 102.

A study of representative selections from major American authors, colonial through modern, with emphasis on ideas, attitudes, and trends having individual, national, and universal interest. (Fall)



**ENGL 215. Survey of English Literature (D-2) 3 hours**

Prerequisite: ENGL 102.

A study of representative selections by British writers, with special emphasis on the author's philosophy as compared or contrasted with Bible-based thinking, and a review of literary trends and influences from the late Roman period to the present. Among writers receiving strong attention are Chaucer, Shakespeare, Donne, Milton, Wordsworth. (Fall, Spring)

**ENGL 216. Approaches to Literature (D-2) 3 hours**

Prerequisite: ENGL 101.

A study of what recognized poets, short-story writers, dramatists, and novelists have to say about the human condition, emphasizing the various approaches to literature and including an introduction to literary terms and critical evaluation. (Spring)

**ENGL 323. Nineteenth-Century American Literature (D-2) (W) 3 hours**

A chronological study of major nineteenth-century American writers and their works beginning with the writings of Washington Irving and the emergence of a genuine "American" literature and ending with Stephen Crane and Jack London whose naturalistic works bridge the nineteenth and twentieth centuries. Among the authors studied are Cooper, Bryant, Longfellow, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, and James. (Fall, even years)

**ENGL 326. Film Evaluation (D-2) (W) 3 hours**

The primary goal of the class is to help each student develop a personal set of criteria for evaluating films. Class activities include viewing films that have made significant contributions to our culture, reading film reviews and criticisms, studying how films are made and how to write about films, and writing about them. The class meets one night per week for a minimum of 3 hours, at which time films are viewed. Evaluation papers based on this viewing are due weekly. (Spring)

**ENGL 335. Biblical Literature (D-2) (W) 3 hours**

A study of some of the literary masterpieces of the Bible in English translation. The course applies techniques of oral interpretation and literary analysis (including emphasis upon uses of poetic and rhetorical devices and of figures of speech) to forms of literature such as address, proverb, parable, poem, short story, epistle, and apocalypse. (Fall, odd years)

**ENGL 336. Medieval and Renaissance Literature (D-2) (W) 3 hours**

From Chaucer through Milton, the writers and their times. Readings in Middle English narrative, allegory, play, and meditation; in sixteenth and seventeenth-century prose, poetry and dramatic literature, with the study of genre, conventions, and trends. Specific attention to moral and religious issues. (Fall, even years)

**ENGL 337. Nineteenth-Century British Literature (D-2) (W) 3 hours**

A study of British writers from the Romantic or Victorian periods (1785-1901), with special emphasis upon Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Austen, Tennyson, Dickens, Arnold, Browning, Carlyle, and Wilde. (Spring, even years)

**ENGL 338. Twentieth-Century Writers (D-2) (W) 3 hours**  
A study of twentieth-century writers with an emphasis on American and/or British works, although world literature in translation may be included. (Spring)

**ENGL 425. Literature of the South (D-2) (W) 3 hours**  
A study of works written by Faulkner, Welty, Warren, Wright, O'Connor and other southern writers which embody the distinctive cultural heritage of the South. An emphasis on the literary treatment of southern traditions and themes. (Fall, odd years)

**ENGL 444. Restoration and Eighteenth-Century Literature (D-2) (W) 3 hours**  
This course considers English literature written between the Restoration and Romantic Revolution. Included are poets and essayists from Milton to Johnson, novelists like Defoe and Fielding, and comic playwrights such as Gay and Goldsmith. (Spring, odd years)

**ENGL 445. World Literature (D-2) (W) 3 hours**  
Beginning with the three great epics which underlie the literature of the Western World—the Iliad, The Odyssey, and The Book of Job—the class will consider a range of classical and medieval works from the Greeks to the Italian Renaissance. Collateral emphasis will be on enhancing the student's ability to differentiate the pagan from the Christian in the thematic mix of individual works. (Fall)

**ENGL 465. Topics in English (W) 3 hours**  
Selected topics in English presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

**ENGL 295/495. Directed Study 1-3 hours**  
The content of this course will be adjusted to meet the particular needs of the student. This course also includes credit offered by the English Department on directed study tours. Open only to English majors or minors with the approval of the department chairman in consultation with the prospective instructor. This course may be repeated for credit.

## EDUCATION

**EDUC 438. Curriculum and Content Methods/English 2 hours**  
Prerequisite: Admission to Teacher Education.  
Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance; the survey and evaluation of textbooks is also included.

## SPEECH

**SPCH 135. Introduction to Public Speaking (D-4) 3 hours**  
Preparation and presentation of short informative and persuasive speeches with emphasis on the selection and organization of material, reasoning, methods of securing interest, persuasive strategies, and the elements of delivery. (Fall, Spring, Summer)

**SPCH 136. Interpersonal Communication (D-4) 3 hours**

Introducing the process of informal transactional communication, this course emphasizes a quality of communication rather than a communication setting, namely personal involvement through emphatic listening and self-disclosure. The course utilizes readings and learning activities to help students understand the theory of interpersonal communication and apply it in realistic transactions.

**SPCH 236. Oral Interpretation (D-4) 3 hours**

Theory and practice in the art of conveying to others the full meaning of selections in literature of various types via reading and interpreting orally.

**SPCH 465. Topics 3 hours**

Selected topics in speech and related areas presented in a classroom setting. Subjects covered will determine general education credit status. This course may be repeated for credit.

**SPCH 295/495. Directed Study 1-3 hours**

The content of this course will be adjusted to meet the particular needs of the student. Open only to students approved by the department chair in consultation with the prospective instructor. This course may be repeated for credit.

**(A-1), (D-2), (G-1), (W)** See pages 52-56 for explanation of General Education requirements.

# HEALTH, PHYSICAL EDUCATION, AND RECREATION

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Chair: Phil Garver

Faculty: Ted Evans, Sheri Hall, Steve Jaecks

Adjunct Faculty: Elizabeth Bowman, Nancy Brock, Bill Godsey,  
Charles Knapp

The courses in Health, Physical Education, and Recreation propose to acquaint students with principles of healthful living, to develop physical efficiency, to develop wholesome recreational habits and/or prepare for a career in health, physical education, and recreation, or in wellness management.

## PROGRAMS IN HEALTH, PHYSICAL EDUCATION, AND RECREATION

**Major (B.S.):** Forty-one hours including PETH 114, 115, 116, 117, 118, 119, 214, 215, 216, 217, 218, 219, 265, 266, 314, 315, 363, 364, 374, 437, 463, 474, 490, (295/495); PEAC 254, 255. Required cognates: BIOL 101-102; FDNT 125; HLED 173, 373, 473.

*Competency required in PEAC 143, Beginning Tumbling.*

Skill deficiencies in each PETH activity unit, 114 through 119 and 214 through 219, will be indicated by grade of C- or less. Deficiencies for these units must be met by taking for no credit the corresponding general education activity course.

Intramural participation is recommended for all majors and minors.

Students who desire teacher certification must meet the State of Tennessee certification requirements set forth by the Department of Education.

**Typical Sequence of Courses for  
B.S. IN PHYSICAL EDUCATION**

Leading to Licensure 7-12

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	PETH 265-266	Officiating	2	2
BIOL 101-102	Anatomy & Physiology	3	3	PETH 221-222	Prof Skills, Indiv	2	2
PETH 121-122	Prof Skills, Team	2	2	RELT 138	Adventist Heritage	3	
EDUC 135	Intro to Education	3		HLED 173	Health & Life		2
RELT 255	Christian Beliefs		3	HLED 373	Care/Prev Injuries		2
SOCI 223	Marriage & Family		2	EDUC 217	Psych Found of Ed	2	
	Elective		2	EDUC 240	Except Child & Yth		2
	Area C-1, History	3	3	MATH 103	Survey of Math	3	
		16	16	SPCH	Electives	3	
					Area D, Lit/Fine Arts		3
					Creat/Prac Skls		2
						15	15
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
PETH 314	Kinesiology	3		PETH 495	Directed Study	1	
PETH 315	Phy of Exercise		4	PETH 463	PE in Elem School	2	
PETH 364	Princ/Admin of PE		3	PETH 374	Motor Learning	2	
PETH 363	Intro to Meas & Res	3		RELB	Biblical Studies (UD)	3	
EDUC 356	Tests & Measurements	2		EDUC 421	Behavior Management	2	
EDUC 250	Technology in Educ		2	EDUC 427	Curr Issues in Ed	2	
FDNT 125	Nutrition	3			Area D, Lit/Lang/ Fine Arts		3
PEAC 254	Lifeaving		1	RELB	Bible Elective		3
PEAC 255	Water Safety Instr		1	HLED 473	Health Education		2
PETH 437	Adapt Phy Ed		2	EDUC 432	Reading in Content		2
PETH 474	Psyc & Soc of Sports	2		EDUC 438	Curri & Content Methds		2
	Area B-1, Bible Study		3	EDUC 462	Organization & Ldrshp		1
	Area E-2, E-3, or E-4, Science		3		Area C-2, Pol Sic/Hist		3
		16	16		Area G-1 or G-2		1
						15	14
<u>YEAR 5</u>							
EDUC 468	Enhanced Stud Tchg		8				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Minor:** Eighteen hours including PETH 265, 266, eight hours selected from 114, 115, 116, 117, 118, 119, 214, 215, 216, 217, 218, 219, and six hours of upper division, including PETH 364.

The student must apply to the Department of Education for admission to the Teacher Education Program and the professional semester before the end of the sophomore and junior years, respectively.

**PROGRAM IN CORPORATE/COMMUNITY WELLNESS MANAGEMENT**

**Major (B.S.):** Forty-one hours including HLED 173, 256, 373, 470, 476, 497; PEAC 125; PETH 314, 315, 364, 374, 474, 490; BIOL 101-102; CHEM 111; FDNT 125. Cognate requirements: ACCT 103; BMKT 326; BUAD 334, 358; CPTR 105; ECON 213; JOUR 205; PSYC 128, 377; SOCI 223.

**Typical Sequence of Courses for  
B.S. CORPORATE/COMMUNITY  
WELLNESS MANAGEMENT**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	MATH 104	Intermediate Algebra	3	
BIOL 101-102	Anatomy & Physiology	3	3	JOUR 205	News Reporting	3	
HLED 173	Health and Life	2		FDNT 125	Nutrition		3
PEAC 125	Conditioning	1		PSYC 128	Developmental Psych	3	
CPTR 105	Intro to Word Process		1	CHEM 111	Survey of Chemistry		3
SOCI 223	Marriage & Family		2	ART 218	Art Appreciation	3	
	Area B, Religion	3		SPCH 135	Intro to Public Spkg		3
	Area C, History	3	3		Area B, Religion		3
	Electives		4		Area D, Literature	3	
		<u>15</u>	<u>16</u>		Electives	<u>1</u>	<u>4</u>
						<u>16</u>	<u>16</u>
 <u>YEAR 3</u>		 <u>Semester</u>		 <u>YEAR 4</u>		 <u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 103	College Accounting	3		PETH 314	Kinesiology	3	
BMKT 326	Intro to Marketing		3	HLED 497	Wellness Practicum	2	
PETH 474	Psych & Soc of Sport	2		HLED 470	Current Issues in Hlth	2	
ECON 213	Survey of Econ (C-2)	3		PETH 315	Physiology of Exercise		4
HLED 256	Drugs and Society	2		PETH 490	Senior Seminar		1
PSYC 377	Fund of Counseling		3	BUAD 358	Legal, Eth, & Soc Envir of Business		3
BUAD 334	Principles of Mgmt	3			Motor Learnng & Develop		2
HLED 373	Care & Prev of Athletic Injuries		2	PETH 374	Area B, Religion	3	
PETH 364	Prin & Admin of Phy Ed	3			Electives	<u>5</u>	<u>4</u>
HLED 476	Meth/Mat of Hlth Promo	3				<u>15</u>	<u>14</u>
	Area B, UD Religion (W)	3					
	Electives		2				
		<u>16</u>	<u>16</u>				

**PROGRAM IN HEALTH SCIENCE**

**Major (B.S.):** Forty-five hours including HLED 173, 373, 470, 473; PETH 314, 315, 374, 490, 495; PEAC 125; CHEM 151-152; MATH 215; BIOL 101-102, 225; FDNT 125.

**Typical Sequence of Courses for  
B.S. HEALTH SCIENCE**

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 101-102	Anatomy & Physiology	3	3	RELT 138	Adventist Heritage	3	
SOCI 223	Marriage & Family		2	HLED 173	Health & Life		2
	Area B-2, Religion		3	MATH 215	Statistics		3
	Area C-1, History	3	3	PEAC 125	Conditioning	1	
	Area A-2, Mathematics	3-0			Area D-2, Literature		
	Electives	4-7	2		OR	3	3
		16	16		Area D-3, F. Arts Appr		
					Area D, Lang/Lit/F Arts		
					(D-4 Speech suggested)	3	
					Area G, Skills		2
					Electives	2	2
						16	16

<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
PETH 314	Kinesiology	3		HLED 470	Current Issues in Hlth		2
PETH 315	Phys of Exercise		3	HLED 373	Care & Prev of Ath Inj	2	
FDNT 125	Nutrition	3		HLED 473	Health Education		2
PETH 374	Motor Learning		2	PETH 490	Senior Seminar		1
BIOL 225	Microbiology	3			Area B, UD Religion		3
	Area B-1, Bibl Studies		3		Area G, Skills	1	
	Area C-2, Pol Sci/Econ		3		Directed Study in PE	1	
	Area G, Skills	2			Electives	11	7
	Electives	4	4			15	15
		15	15				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**GENERAL EDUCATION ACTIVITY COURSES**

PEAC courses have optional pass/fail grades available.

**PEAC 123. Volleyball (G-3) 1 hour**  
Development of the skills of passing, setting, serving, and spiking necessary in participation in power volleyball. (Fall)

**PEAC 124. Basketball (G-3) 1 hour**  
Individual skills and team concepts are developed that may be used in competition and leisure play. (Spring)

**PEAC 125. Conditioning (G-3) 1 hour**  
A study of basic fitness training and aerobic principles in conjunction with a personalized long-range conditioning program for disease prevention and health maintenance. (Fall, Spring)

**PEAC 126. Softball (G-3) 1 hour**  
Fundamental skills in hitting, bunting, sliding, throwing, running, and fielding, incorporated with softball facts, terminology, and team strategy. (Fall)

- PEAC 131. Badminton (G-3)** 1 hour  
Instruction includes strokes, rules, and playing situations plus physical conditioning for badminton. (Spring)
- PEAC 133. Racquetball (G-3)** 1 hour  
Focus is given to basic skills, rules, and terminology so that the student can carry on successful play. (Fall, Spring)
- PEAC 134. Basic Tennis (G-3)** 1 hour  
Emphasis in basic tennis skills including the forehand, backhand, and serve. (Fall)
- PEAC 136. Basic Golf (G-3)** 1 hour  
A basic course for the beginning golfer. Students must have their own golf clubs. Lab fee required. (Fall)
- PEAC 137. Cycling (G-3)** 1 hour  
A course for the active cyclist emphasizing various types of cycling, cycling techniques, safe cycling, and maintenance. Each student provides his/her own bicycle and helmet. (Fall)
- PEAC 138. Intermediate Golf (G-3)** 1 hour  
Play on a variety of courses for the bogey golfer. Students must have their own golf clubs. Lab fee required. (Fall)
- PEAC 139. Advanced Tennis (G-3)** 1 hour  
For the advanced player. Emphasis is given to the advanced serve, volley, lobs, advanced ground strokes and playing strategy. Admission to class must be approved by instructor. (Fall)
- PEAC 143. Basic Tumbling (G-3)** 1 hour  
Mat tumbling leading to gymnastic free-exercise routines in conjunction with acrosport exposure.
- PEAC 144. Basic Apparatus (G-3)** 1 hour  
Skill development on various gymnastic equipment such as the pommel horse, high bar, P-bars, rings, unevens, and balance beam.
- PEAC 151. Scuba Diving (G-3)** 1 hour  
Leads to basic certification by N.A.S.D.S. or N.A.U.I. Lab fee of \$98 and check out dive expenses charged in addition to tuition. (Fall, Spring)
- PEAC 153. Basic Swimming (G-3)** 1 hour  
Development of beginning and intermediate swimming skills coupled with aquatic safety principles. (Fall, Spring, Summer)
- PEAC 160. Snow Skiing (G-3)** 1 hour  
This course requires the students to go to Colorado during spring break. Grades are based on hours skied and difficulty of slopes skied. The trip expenses vary from year to year, in the \$450.00 range. These fees are NOT charged to the student's account. Sign up at the gym in November in order to reserve a spot on the trip for the following spring break.



- PEAC 243. Tumbling Team (Gym-Masters) (G-3) 1 hour**  
 A "variety show" team which emphasizes acrosport, sports acrobatics, gymnastics, physical fitness and health. Admission will be based on satisfactory performance of try-out requirements. Participation in all tours is required. This course may be repeated for credit. **Due to program conflicts, second semester Gym-Masters will not enroll in classes that meet before 1:00 p.m. on Tuesdays and Thursdays.** (Fall, Spring)
- PEAC 253. Intermediate Swimming (G-3) 1 hour**  
 Review of swimming strokes, diving, and conditioning. (Fall, Spring)
- PEAC 254. Lifeguarding (G-3) 1 hour**  
 Prerequisite: PEAC 253 or equivalent.  
 Leads to Red Cross Life Guarding certification, First Aid and CPR certification. (Fall, Spring)
- PEAC 255. Water Safety Instructor (G-3) 1 hour**  
 Prerequisite: PEAC 254 or equivalent.  
 Leads to Red Cross Water Safety Instructor certification. (Fall, Spring)
- PEAC 259. Special Activities (G-3) 1 hour**  
 Courses with various structured content may be offered under this topic heading. Included are courses in water skiing, sailing, small craft, snow skiing, rock climbing, spelunking, and aerobics. This course may be repeated with the varying subject matter. Lab fees in addition to tuition are usually charged approximately \$50-\$160.
- PEAC 261. Introduction to Recreation (G-3) 1 hour**  
 A course designed to promote outdoor recreation and provide experience for those interested in preparing for different phases of camp life, outdoor living and activities.

## HEALTH EDUCATION

- HLED 173. Health and Life (F-3) 2 hours**  
 A study of current subjects vital to healthful living. Integrating healthful living and Christianity with today's scientific research. Not open to nursing students. (Fall, Spring, Summer)
- HLED 203. Safety Education (F-3) 2 hours**  
 The nature and causes of accidents with emphasis in teacher/pupil safety problem situations. (Spring)
- HLED 256. Drugs and Society 2 hours**  
 An introductory course focusing on the use and abuse of drugs in our society. Emphasis on strategies to assist future health promoters in recognition, intervention, and prevention of substance abuse. Oral presentation required. (Fall)
- HLED 373. Care and Prevention of Athletic Injuries 2 hours**  
 Prerequisite: PETH 314.  
 Investigations into the prevention, care, and proper management of injuries related to athletics. (Spring)

**HLED 470. Current Issues in Health 2 hours**

This is a seminar course designed to assist students in becoming knowledgeable regarding health issues of our time. Library research and class presentations are required. Discussion and problem solving are emphasized. A major part of the class focuses on the need of a spiritual component in establishing a healthful and balanced lifestyle. (Fall)

**HLED 473. Health Education 2 hours**

Prerequisite: HLED 173 or HLED 470.

A study of the theoretical and scientific basis of health education with emphasis on the development and organization of the school health instruction program. Two oral presentations required. (Spring)

**HLED 476. Methods and Materials of Health Promotion 3 hours**

A course in planning, implementing and evaluating: work-site and community health promotion activities, including stress management, smoking cessation, cardiovascular fitness, body composition, and cholesterol testing. Oral presentation required. (Spring)

**HLED 497. Wellness Practicum 2 hours**

The student will work at a wellness facility for not less than 100 clock hours gaining experience with equipment, observing facility scheduling and management, and interacting with clients. Arrangements are made in advance with the department chair. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25. (Fall, Spring, Summer)

**PHYSICAL EDUCATION THEORY****PETH 114. ProAct — Softball 1 hour**

Development of professional skills including performance and teaching techniques for softball. For majors and minors only. (Fall, odd years)

**PETH 115. ProAct — Flagball 1 hour**

Development of professional skills including performance and teaching techniques for flagball. For majors and minors only. (Fall, odd years)

**PETH 116. ProAct — Volleyball 1 hour**

Development of professional skills including performance and teaching techniques for volleyball. For majors and minors only. (Fall, odd years)

**PETH 117. ProAct — Basketball 1 hour**

Development of professional skills including performance and teaching techniques for basketball. For majors and minors only. (Spring, even years)

**PETH 118. ProAct — Floor Hockey 1 hour**

Development of professional skills including performance and teaching techniques for floor hockey. For majors and minors only. (Spring, even years)

**PETH 119. ProAct — Soccer 1 hour**

Development of professional skills including performance and teaching techniques for soccer. For majors and minors only. (Spring, even years)

- PETH 210. Aerobic-Exercise Instructor Training** **2 hours**  
 This course will combine the theory and practical aspects of aerobic exercise programs. Knowledge and skills will be the focus, with students developing and teaching their own aerobic routines as a demonstration of their understanding and skills of sound aerobic principles. Aerobic certification will be available.
- PETH 214. ProAct — Tennis** **1 hour**  
 Development of professional skills including performance and teaching techniques for tennis. For HPER majors and minors only. (Fall, even years)
- PETH 215. ProAct — Golf** **1 hour**  
 Development of professional skills including performance and teaching techniques for golf. For HPER majors and minors only. (Fall, even years)
- PETH 216. ProAct — Conditioning** **1 hour**  
 Development of professional skills including performance and teaching techniques for conditioning. For HPER majors and minors only. (Fall, even years)
- PETH 217. ProAct — Badminton** **1 hour**  
 Development of professional skills including performance and teaching techniques for badminton. For HPER majors and minors only. (Spring, odd years)
- PETH 218. ProAct — Track and Field** **1 hour**  
 Development of professional skills including performance and teaching techniques for track and field. For HPER majors and minors only. (Spring, odd years)
- PETH 219. ProAct — Gymnastics** **1 hour**  
 Development of professional skills including performance and teaching techniques for gymnastics. For HPER majors and minors only. (Spring, odd years)
- PETH 265, 266. Officiating Sports Analysis** **2,2 hours**  
 An introduction to administration of and participation in the organization of officiating in team and individual recreational activities. (Fall, Spring)
- PETH 314. Kinesiology** **3 hours**  
 Prerequisite: BIOL 101-102 or equivalent.  
 A study of the anatomical and mechanical variables influencing movement, including adaptive activities for the handicapped person. Historical impact of the leaders in physical education is covered. (Fall)
- PETH 315. Physiology of Exercise (W)** **4 hours**  
 Prerequisite: BIOL 101-102 or equivalent.  
 Emphasizing the physiological effects of muscular exercise, aerobics, and physical conditioning. Significance of these effects for health, skilled performance, and prevention of disease. Oral presentation required. (Spring)
- PETH 363. An Introduction to Measurements and Research of Physical Education** **3 hours**  
 A survey of tests used in Physical Education and an introduction to statistical procedures for analyzing data and how it may be applied to research. History of physical education is also dealt with briefly. (Fall)

**PETH 364. Principles and Administration of Physical Education and Recreation 3 hours**

An integrated study of the principles and administrative concepts of Physical Education and Recreation with emphasis in management needs and skills. (Spring)

**PETH 374. Motor Learning and Development 2 hours**

A course of study designed to examine motor development and motor behavior as it relates to an individual's maturation process, with emphasis placed on implications for the physical educator. (Fall)

**PETH 437. Adaptive Physical Education 2 hours**

A course designed to develop an understanding of neurodevelopment and functional ability, of impairments and their implications for motor performance. Emphasis on teaching progressions and exercise programs for special populations. (Fall)

**PETH 463. Physical Education in the Elementary School 2 hours**

A course of study designed to acquaint students with the unique aspects of physical education and the adolescent. Special activities include teaching and observation in an elementary school.

**PETH 474. Psychology and Sociology of Sports 2 hours**

An exploration of sports and their involving impact on American culture. Special attention is given to current issues in sports as they relate to the individual in society. (Spring)

**PETH 490. Senior Comprehensive Seminar (W) 1 hour**

A course of study designed to prepare the student for the exit exam. Special attention is given to concepts, practical applications, and administrative responsibilities within the profession. This course will be on a pass/fail basis.

**PETH 295/495. Directed Study (W) 1-3 hours**

For Physical Education majors or minors only. Gives the student the opportunity to pursue knowledge in an area of interest related to health, PE, or recreation. Approval by Department Chair required.

**EDUCATION**

**EDUC 438. Curriculum and Content Methods/Health and Physical Education 2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance.

(F-3), (G-3), (W) See pages 52-56 for explanation of General Education requirements.

# HISTORY

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Chair: Benjamin McArthur

Faculty: Dennis Pettibone, Mark Peach

History is the study of the human experience. It investigates mankind's ideas, institutions, and activities. In pursuing this investigation, history courses at Southern College emphasize the Christian view of humanity. This perspective recognizes both the potential and the limitation of human endeavor and thereby permits a broader comprehension of the past and a greater hope for the future.

**Approval of study programs for history majors.** Departmental approval is necessary for all programs. A student majoring in history must plan his/her entire study program with a member of the history faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the CATALOG.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.
4. Completion of senior year assessment.

## ASSESSMENT OF MAJORS

Assessment of seniors consists of two parts. First, in the spring semester of their senior year students will take the ETS Major Field Achievement Test in history. Second, at the end of the fall or early in the spring semester, students will take a departmental exam. Preparation for this exam will include a one-hour independent study course (normally taken during the fall of the senior year) involving: 1) reading a selected few classics of historical literature; 2) reviewing one's history coursework utilizing several thematic questions provided by the history faculty.

The subsequent examination will be in the form of a one-hour interview of the candidate by the history faculty. This will be based on the above-mentioned materials and also on the student's portfolio of major papers accumulated during his/her history coursework. The oral examination is graded on an Honors, Pass, or Fail basis. A failure requires further preparation by the student and another interview before graduation.

**BACHELOR OF ARTS DEGREE IN HISTORY**

**Major:** Thirty-one hours including HIST 154, 155, 174, 175, 490, 499. Six hours of political science may apply to the major. The intermediate level of a foreign language is required. At least two courses are to be taken in each of the following areas:

**Area I:** American History, HIST 353, 354, 355, 356, 357, 359; PLSC 254, 353, 357.

**Area II:** European History, HIST 374, 375, 386, 389, 471, 472; PLSC 389, 471, 472; either HIST 364 or 365.

**Cognate:** One of the following: ECON 224, 225, GEOG 204.

Upper division history classes seek to improve skills of writing and speech. All such classes required analytical writing as part of the coursework. Additionally, many classes involve discussion and oral class reports as partial basis for the student's grade, most notably HIST 499, Research Methods in History, which requires an extended formal presentation of student research.

**Typical Sequence of Courses for  
B.A. HISTORY**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
HIST 154, 155	American History	3	3	HIST 174, 175	World Civilizations	3	3
ENGL 101-102	College Composition	3	3		Area B, Religion	3	
	Area B, Religion	3			Area E, Natural Sci	3	3
	Area A-2, Mathematics		0-3		Area G, Act Skills	3	
	Area F, Behav/Family/ Health Science	3	2		Area D, Lit/Fine Arts/ Speech		3
	Area D, Lit/Fine Art				Minor or Elective		4
	OR	3	3		Area D, Inter For Lang	3	3
	Area D-1, Beg For Lang					15	16
	Electives		5-2				
		15	16				
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
	Area B, Religion	3		HIST 490	Senior Exam Prep		1
	Area C, UD History	3-6	3-6	HIST 499	Research Meth in Hist	3	
	Area G, Skills		2		Area B, UD Religion	3	
	Area G-3, Rec Skill		1		Area C, UD History	3-6	3-6
	Area C-2, Pol Sci/Econ	3			Minor or Electives	6-3	12-9
	Minor or Electives	6-3	10-7			15	16
		15	16				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**History as a preprofessional degree:** A student majoring in history who plans to enter a professional school in an area such as medicine or law must present a balanced program of general education classes and electives that will support the professional objectives.

**History as a preparation for teaching:** A student majoring in history who plans on secondary certification will automatically have the 24 semester hours required for certification in that field. Additionally, one must take twelve hours of political science, six hours of which will count toward the history major. It is strongly recommended that the student also earn teaching credentials in a field outside of history. No specific supporting field is required but art, behavioral science, business, English, modern languages, and religion are recognized as intimately related to the study of history. A student may receive certification to teach history as a second area by completing a minor in history (see under Minor below). Since the entire second semester of the senior year is devoted to certification requirements, students earning teacher certification must finish all history classwork before reaching the final semester. Students applying for teacher certification must consult with the Education Department to draft a schedule of classes meeting certification requirements.

Before the end of the sophomore year the student must apply to the Department of Education for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Department of Education for admission to the professional semester.

**History Minor:** Eighteen hours including HIST 174, 175. The additional twelve hours will be chosen from remaining history courses, six hours of which must be upper division. A minimum of three hours must be chosen from each of the American and European areas. Three hours of political science may be taken in lieu of three hours of history. A student planning to minor in history in order to obtain a second teaching area for certification must take all eighteen hours in history and must include HIST 154, 155.

**History Department tours:** The Department of History regularly sponsors study tours to foreign countries and in the United States. The purpose of these tours is to provide students and other participants with an enhanced understanding of history and culture through a combination of traditional lecture and reading with direct observation of historical sites. Academic activities connected with the tours require students to spend an amount of time equal to that expected in a regular classroom setting. Preparatory meetings and assigned reading are included in this computation. Course credit is offered under HIST 295/495 Directed Study in History. Cost of the tours includes charge for academic credit.

**History as general education:** Freshman and sophomore students earning general education credit in history should take courses from the 100 and 200 level. Junior and senior students meeting general education requirements in history should select courses from the 300 and 400 level.

**Political Economy Minor:** This eighteen-hour minor combines an interdisciplinary selection of courses helpful for law school preparation. For a further description of this pre-law preparation program, see page 289.

## HISTORY

**HIST 154, 155. American History and Institutions (C-1) 3,3 hours**

An introductory survey of the nation from colonial times to the present. The development of its politics, government and social institutions is covered in each semester of the sequence. This course is recommended as general education for freshmen and sophomores. (Fall, Spring, Summer)

**HIST 174, 175. World Civilizations (C-1) 3,3 hours**

A study of the development of Western and non-Western culture and government, emphasizing the evolution of European society and its interaction with non-European civilizations. This course is recommended as general education for freshmen and sophomores.

**HIST 353. From Colony to Nation (C-1) (W) 3 hours**

A detailed survey of American political and social history from 1607 to 1800, including the founding of the thirteen colonies, the American Revolution, and the establishment of the new nation.

**HIST 354. Latin America (C-1) (W) 3 hours**

A survey of Latin America offering brief backgrounds from the colonial, independence, and early national periods, but focusing on twentieth-century trends in selected republics. Arranged with instructor.

**HIST 355. History of the South (C-1) (W) 3 hours**

A study of the American South from the Early National period through Reconstruction. Prominent issues will include slavery, sectionalism, the Civil War, and Reconstruction.

**HIST 356. Natives and Strangers (C-1) (W) 3 hours**

A study of immigration and the role of ethnic groups in American society. Special emphasis on the tension between assimilation and pluralism in the national character.



**HIST 357. Modern America (C-1) (W) 3 hours**

A study of American History from 1900 on with special examination of the progressive era, normalcy, the depression, the New Deal, and the role of the United States in world affairs. (Fall)

**HIST 359. Transformation of American Culture (C-1) (W) 3 hours**

A topical approach to nineteenth and twentieth-century American history, focusing on the modernization of life. Among the topics that may be covered are entertainment, the media, urban culture, social relations, transportation, and art and architecture.

**HIST 364. Christian Church I: From the Early Church Through the Middle Ages (C-1) (W) 3 hours**

A study of the history of western Christianity from the end of the apostolic period to the end of the Middle Ages, emphasizing both institutional and theological development. (Fall)

**HIST 365. Christian Church II: From the Reformation Through the Twentieth Century (C-1) (W) 3 hours**

A study of the reorientation of western Christianity, beginning with the Protestant Reformation and culminating with contemporary religious trends. (Spring)

**HIST 374. History of England (C-1) (W) 3 hours**

A survey of the history of Great Britain from Roman times to the twentieth century, emphasizing political, cultural, and economic developments which have influenced western civilization as a whole.

**HIST 375. Ancient World (C-1) (W) 3 hours**

A study of the three stages of ancient civilization, the Ancient Near East, Greece, and Rome, and the contribution each has made to the development of western culture.

**HIST 386. Rise of the West (C-1) (W) 3 hours**

A study of European history from the fall of Rome to the beginning of the modern age, focusing on those developments which have influenced the institutions and values of modern western civilization. The chronological emphasis is on the eleventh through the sixteenth centuries.

**HIST 389. Vienna to Vietnam (C-1) (W) 3 hours**

A study of major historical developments affecting international relations since the Napoleonic Era. The class treats antithetical forces such as peace and war, power and weakness, sovereignty and dependence, as well as others, in their historical setting. Students may earn either history or political science credit, depending on individual assignments.

**HIST 465. Topics in History (C-1) (W) 3 hours**

Selected topics in history presented in classroom setting. Subjects covered will determine whether credit is granted in Area I or Area II. This course may be repeated for credit.

- HIST 471. Classics of Western Thought I (C-1) (W) 3 hours**  
A study of the key thinkers in western thought from the Heroic Age of Greece to the Renaissance. Reading from original sources, this class will emphasize the discussion and analysis of ideas that have formed the basis of western thought. Included in the readings are selections from Herodotus, Cicero, St. Augustine, Boccaccio, Montaigne, and St. Ignatius of Loyola.
- HIST 472. Classics of Western Thought II (C-1) (W) 3 hours**  
A study of the key thinkers in the nineteenth and twentieth centuries. Reading from original sources, this class will emphasize discussion of critical ideas that have effected the evolution of contemporary social and political thought. Included in the readings are selections from Locke, Mill, Marx, Nietzsche, Lenin, and Hitler.
- HIST 490. Senior Exam Preparation 1 hour**  
Independent study and reading in preparation for the assessment exam taken by senior history majors.
- HIST 295/495. Directed Study (C-1) (W) 1-3 hours**  
A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. This course also includes credit offered by the History Department on directed study tours. Writing emphasis credit for HIST 495 only. Approval of the department is required prior to registration.
- HIST 499. Research Methods in History (C-1) (W) 3 hours**  
Historical theories, procedures, and research methods are examined in conjunction with the preparation of a research project. (Fall)
- POLITICAL SCIENCE**
- PLSC 254. American National and State Government (C-2) 3 hours**  
An examination of the operation of the executive, legislative, and judicial branches of government of the national, state, and local levels.
- PLSC 353. From Colony to Nation (C-2) (W) 3 hours**  
See HIST 353 for course description.
- PLSC 357. Modern America (C-2) (W) 3 hours**  
See HIST 357 for course description.
- PLSC 389. Vienna to Vietnam (C-2) (W) 3 hours**  
See HIST 389 for course description.
- PLSC 465. Topics in Political Science (C-2) 3 hours**  
See HIST 465 for course description.
- PLSC 471. Classics of Western Thought I (C-2) (W) 3 hours**  
See HIST 471 for course description.
- PLSC 472. Classics of Western Thought II (C-2) (W) 3 hours**  
See HIST 472 for course description.

**GEOGRAPHY**

**GEOG 204. World Geography**

**3 hours**

(C-2 credit for elementary education majors only).

Maps, land forms, soil, mineral resources, weather, and climate are considered. Man's adjustment to various physiographic regions is studied. (Fall)

**GEOG 306. Cultural Geography (C-2)**

**3 hours**

A course for student missionaries assigned to a country other than the United States. Focuses on geographic and social characteristics. Activities include assigned reading prior to departure, journal of on-site observations, formal paper after return to campus. Prior to departure, the student will make all arrangements with a teacher assigned by the Department of History. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**EDUCATION**

**EDUC 438. Curriculum and Content Methods/History**

**2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, and the survey and evaluation of textbooks.

**(C-1), (C-2), (W)** See pages 52-56 for explanation of General Education requirements.

# INDUSTRIAL TECHNOLOGY

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Chair: Dale Walters

Faculty: John Durichek, Kenneth Reynolds

Adjunct Faculty: Mark McGrath

Courses are offered which provide opportunity to balance learning with practical experience in the areas of woods, metals, printing, drafting, and auto maintenance. Objectives of these classes are:

1. To assist the student in growing toward his potential by providing classroom and lab experiences that nurture creativity.
2. To help the student learn to meet the challenges of daily living by providing "hands-on" experiences with elements of the environment.
3. To develop practical skills which will be useful throughout life as hobby and recreational activities as well as professional enhancement.
4. To provide opportunity for the student to develop tactile learning skills.
5. To introduce the student to opportunities in technical and service occupations.
6. To provide background for entrance into specialized technical and professional degree programs and occupations. These courses are essential for students majoring in:

Art

Business Administration

Education

Journalism and Communication

Office Administration

Pre-Occupational Therapy

Pre-Engineering

**Minor:** A minor in Technology is eighteen hours including six hours upper division. Courses in Auto Body and Auto Maintenance that apply are TECH 111, 112, 164, 166, 167, 223, and 264.

## CERTIFICATE PROGRAMS

### Auto Body—Repair and Refinishing

The auto body program is designed to teach panel repair, refinishing, estimating, frame straightening, and major collision repair. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as technicians provide their own hand and air tools, the student will be expected to purchase a skeleton set for personal use during the course. The department will assist the student in the purchase of these tools which will cost approximately \$350.

The requirements are as follows: TECH 110, 111-112, 114, 115, 116, 118, 120; TECH 164, 264, and three hours from General Education B-1 or B-2 courses.

#### Typical Sequence of Courses for AUTO BODY REPAIR

A program which provides intensive exposure and correlated experience in various facets of auto body repair.

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
TECH 111	Painting & Refinish. I	3	TECH 118	Collision Repair II	5
TECH 110	Panel & Spot Repair	4	TECH 120	Collision Repair III	5
TECH 115	Arc Welding	2	TECH 112	Painting & Refin II	3
TECH 116	Collision Repair I	4	TECH 114	Oxy Acetylene Welding	1
TECH 164	Auto Maintenance	2	TECH 264	Auto Repair	3
	Area B, Religion	3			17
		18			

At the end of the second semester and after nearly 1,000 hours of instruction and lab time the successful student will have skills to do:

- (1) major collision repair
- (2) frame alignment
- (3) job estimating
- (4) complete repaint work
- (5) power plant and drive train repair

A certificate will be awarded upon satisfactory completion of 900 plus hours of instruction and lab time.

In addition to introductory repair projects, each student will be involved in at least three major collision repair projects.

All students will be given the NIASE (National Institute of Automotive Service Excellence) certification exams as specified by the department. Students who pass the exams become eligible for ASE certification after two years of experience following their training.

Enrollment in the Auto Body Certificate Program is limited.

## Auto Mechanics Technician

The auto mechanics technician program is designed to teach an awareness of and proficiency in repairing engines, transmission/transaxles, drivetrain/axles, heat/air conditioning, electrical, engine computers and fuel injection systems. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as technicians provide their own hand and air tools, the student will be encouraged to purchase a basic set.

The requirements are as follows: TECH 114, 115, 166, 168, 167, 175, 176, 177, 178, 264, and three hours from General Education B-1 or B-2 courses.

### Typical Sequence of courses for AUTO MECHANICS TECHNICIAN

1st Semester		Hours	2nd Semester		Hours
TECH 115	Arc Welding	2	TECH 114	Oxy-Acetylene Weld	1
TECH 166	Auto Elect Sys	2	TECH 175	Engine Rebuild/Mech	4
TECH 167	Suspension & Align	3	TECH 176	Engine Perform & Comp	5
TECH 168	Manual Driv Train	3	TECH 177	Eng Fuel & Emiss Sys	4
TECH 264	Auto Repair	3	TECH 178	Heat & Air Condit	4
Area B	Religion	3			16
		16			

Enrollment in the Auto Body Certificate Program and Auto Mechanics Technician Program is limited. Students will be working on projects in a live operating repair shop environment.

At the end of the second semester they will complete approximately 1,000 hours of instruction and lab time, and if successful, will have skills to do:

1. Major engine repair
2. Driveability diagnosis and computer systems repair
3. Both 2 and 4 wheel alignment
4. Manual transmissions and drivetrain
5. Electrical diagnosis and repair
6. Heating and air conditioning service

A certificate will be awarded upon satisfactory completion of 900+ hours of instruction and lab time.

All students will be given the NIASE (National Institute of Automotive Service Excellence) certification exams as specified by the department. Students who pass the exams become eligible for ASE certification after two years of experience following their training.

Enrollment in the Auto Mechanics Technician Program is limited.

## AFFILIATION PROGRAM

Students wishing a Bachelor of Technology degree in Graphic Art or Technical Plant Services may take the following classes and transfer to Andrews University after one year:

### *B.T. Graphic Arts*

TECH 145, 149, 295 .....	6 hours
ART 104, 109 .....	5 hours
CPTE 245 .....	3 hours
CPTR 105, 106, 107 .....	3 hours
ENGL 101 .....	3 hours
JOUR 225 .....	3 hours
RELT 255 .....	3 hours
SOCI 125 .....	3 hours
SPCH 135 .....	3 hours

### *B.T. Technical Plant Services*

TECH 114, 115, 149, 154, 174, 183, 223, 264 .....	19 hours
CPTE 249 .....	3 hours
ENGL 101 .....	3 hours
SPCH 135 .....	3 hours
RELT 255 .....	3 hours
SOCI 125 .....	3 hours

## TECHNOLOGY

### **TECH 101. Technology Awareness 2 hours**

This course is designed so that the student will become better acquainted with the field of technology. Emphasis is directed toward but not limited to the area of industrial technology, current and future developments in the industry and their impact on society. Along with an awareness of the qualifications to enter today's technological job market, special attention will be given to the training available at Southern and other SDA institutions. Open to all students.

### **TECH 110. Panel and Spot Repair 4 hours**

Course is the first introduction to body repair. Student will learn how to straighten small dents, prepare panel for body fillers, prime and block ready for painting. (Fall)

### **TECH 111-112. Painting and Refinishing 3,3 hours**

An introductory study of vehicle preparation and painting. Student will progress to doing complete refinish job himself. Student must purchase his own respirator and spray gun. Costs average \$150. (Fall, Spring)

### **TECH 114. Oxy-Acetylene Welding 1 hour**

Gas welding and brazing of sheet metal in preparation for typical body shop welding jobs. Personal goggles required. Certain specialized welding processes will be taught, such as tig, cast iron, or others to be arranged on an individual basis. A lab fee of \$10 is charged. (Spring)

**TECH 115. Arc Welding****2 hours**

A class designed to give basic understanding of arc welding processes. Emphasis will be given to MIG, TIG, Heliarc, as well as conventional stick welding. Each student must purchase safety glasses and welding gloves. A lab fee of \$15 is charged. (Fall)

**TECH 116. Collision Repair I****4 hours**

Introduction to a major collision job. Students will probably work in pairs. Body alignment, frame straightening, panel replacement, and dent repair are involved. (Fall)

**TECH 118. Collision Repair II****5 hours**

Continuation of experience in collision repair, emphasizing body alignment, frame straightening, glass work, fiberglass repair, and body section replacement. There is no lecture component to this class, but rather is composed of four three periods laboratory per week. (Spring)

**TECH 120. Collision Repair III****5 hours**

A repetition of work experiences of Collision Repair I and II, but on an individual basis. Students will learn estimate writing, parts and supplies purchasing, shop management, and equipment maintenance. (Spring)

**TECH 145. Introduction to Graphic Arts (G-2)****3 hours**

Special emphasis is given to offset methods of copy preparation, camera techniques, platemaking, screen printing, and press work. Experience is offered in personal computer desktop publishing. Skills learned are applicable for personal and business communications. A supplies fee will be charged for projects produced in class. Average cost of projects approximately \$75. (Fall)

**TECH 149. Mechanical Drawing (G-2)****2 hours**

A basic course in drafting, training the student in the use of instruments and the principles of orthographic projection, surface development, sectioning, pictorial representation, and dimensioned working drawings. Six periods of laboratory each week. Lecture as announced by the instructor. Instruments cost approximately \$75. (Fall)

**TECH 151. Architectural Drafting****3 hours**

An introduction to skills and basic knowledge of architectural drafting. Emphasis is on lettering, orthographic projection, parallel line pictorial drawings, shades and shadows, and perspective drawing. Instruments cost approximately \$50. Open to all students.

**TECH 154. Woodworking (G-2)****3 hours**

A study of hand and machine tools, joinery, and proper methods of furniture construction. One period lecture, six periods laboratory each week. A supplies fee will be charged for the cost of the materials used in project construction. Generally, the costs have not exceeded \$225. (Spring)

**TECH 164. Automotive Maintenance (G-2)****2 hours**

A course designed to help the car owner become knowledgeable in the matters of buying, servicing, and maintaining the auto. The student will work on his own car or on one belonging to the shop. One period lecture and three periods laboratory each week. (Fall)



- TECH 166. Auto Electrical Systems** **2 hours**  
A course designed to give a basic understanding of automotive electrical systems. Basic electrical principles and trouble shooting techniques will be taught. Emphasis will be given to lighting, charging, starting and accessory systems. One period lecture, three periods lab per week.
- TECH 167. Suspension, Steering and Alignment** **3 hours**  
A course designed to give understanding of automotive suspension and steering systems. Chassis service, repair, and trouble shooting will be taught. Alignment of both two and four wheel alignment systems will be taught. One and a half period lecture and four and a half labs per week.
- TECH 168. Manual Drive Train, Axles and Brakes** **3 hours**  
A study of manual drive train operation, diagnosis and repair. Clutches, manual transmissions and transaxles.
- TECH 174. General Metals (G-2)** **3 hours**  
Designed to acquaint the student with the many aspects of working with metals. Instruction will be given in the areas of forging, foundry, sheet metal, welding, plus hand and power-operated metal-cutting equipment. One period lecture and six periods laboratory each week. Project expenses average \$50. Each student must purchase his own safety glasses, welding gloves and goggles. (Spring, alternate years)
- TECH 175. Engine Rebuilding and Machining** **4 hours**  
A course designed to acquaint the student with major engine diagnosis, decision making and overhaul procedures. Machining and measuring processes related to engine rebuilding will be taught. Each student will be required to rebuild an engine and do engine machine work. Two periods lecture, six periods of lab per week.
- TECH 176. Engine Performance and Computers** **5 hours**  
Electronic and computerized ignition systems operating theory will be emphasized. Each student will be taught driveability diagnosis and trouble shooting techniques for electronic and computerized systems. Hands on diagnosis practice using diagnostic equipment on live vehicles will be given. Two periods of lecture, nine hours of lab per week.
- TECH 177. Engine Fuel and Emission Controls** **4 hours**  
Both carburetor and fuel injection operation theory, and standard and electronic carburetion systems theory will be covered. Fuel injection diagnosis and repair as well as carburetor overhaul procedures will be taught. Emission control operation as well as trouble shooting and service procedures will be taught. Two periods of lecture, six periods lab per week.
- TECH 178. Heating and Air Conditioning** **2 hours**  
A course designed to teach the principles of heating and air conditioning systems. Emphasis will be given to service and trouble shooting of manual and automatic heating systems of late model cars. One period lecture, three periods lab per week.
- TECH 183. Basic Electronics** **3 hours**  
An introductory course to the properties of electricity/electronics as they pertain to AC and DC electrical circuits and devices such as diodes, transistors and integrated circuits. Intended to introduce the beginning student to the field of electronics. Two three-hour lecture/labs each week.

**TECH 223. Auto Body Repair (G-2) 3 hours**

An introductory course designed to acquaint the student with the principles and techniques used in repair of damaged body panels. Preferences will be given for class admission to those who have experience in doing automotive work and who have gas welding skills. Each student will need his own basic hand tools which cost approximately \$100. One period lecture and six periods laboratory per week. (Spring, alternate years)

**TECH 254/354. Furniture Design and Construction 3 hours**

Prerequisite: TECH 154.

Emphasis will be placed on the design process as it pertains to woods and its combination with other materials. Two three-hour lecture/labs each week. (Available upon request)

**TECH 264/364. Automotive Repair (G-2) 3 hours**

Prerequisite: TECH 164.

A course designed to give basic understanding of the automobile. Main emphasis is given to power plant and drive train design, operation and service. One period lecture and three periods laboratory each week. All lab learning experience is on actual cars either from the community or personal vehicles. (Spring)

**TECH 376. Automation and Robotics 4 hours**

See CPT 376 for course description.

**TECH 295/495. Directed Study 1-3 hours**

The study of a specific problem in the field of Technology. A written report of the problem may be required by the supervising instructor. Open only to those earning a minor in Technology. Offered on demand. (Fall, Spring)

**(G-2) See pages 48-50 and 52-56 for explanation of General Education requirements.**

# JOURNALISM AND COMMUNICATION

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Chair: Lynn Sauls

Faculty: Pam Harris, Volker Henning

Adjunct Faculty: Ted Betts, Joyce Dick, Eva Lynne Disbro, Ruth Garren, Wesley Hasden, Stanley Strange, Douglas Walter, Billy Weeks

The Department of Journalism and Communication provides an educational environment in which future leaders in journalism, public relations and related areas can acquire the enduring ethical concepts, the intellectual discipline and the professional abilities necessary to the mastery and management of a wide range of writing, editing and other journalistic and public relations skills and techniques.

The department offers the Bachelor of Arts Degree with majors in Journalism (News Editorial), Broadcast Journalism, and Public Relations. Minors are also available in each of these areas as well as Advertising and Sales.

The Journalism (News Editorial) major prepares students for careers as reporters, writers and editors for daily and weekly newspapers, magazines, wire services, publishing houses and for the vast array of publications that serve the church, business, industry, governmental agencies, the medical field, colleges and universities and other non-profit organizations.

Students enrolling in the Broadcast Journalism major receive preparation for careers in both commercial and public radio and television as reporters, writers and editors in news and public affairs operations.

Public Relations majors are prepared for careers in every major segment of business, industry, government, the church, colleges, universities, hospitals and other medical institutions, and in a wide range of organizations.

The Journalism major, Broadcast Journalism major, and the Public Relations major also prepare students for entry into graduate schools nationwide.

The Advertising minor combined with such majors as Public Relations prepares students for careers in advertising copywriting, advertising design (when coupled with a second minor in Art), and creative directing.

The Sales minor combined with a Broadcast major prepares the student for jobs in the sale of commercials as well as in station development. By adding the Sales minor, a student multiples job opportunities in the field of Broadcasting.

Members of the faculty will advise each student in planning a study program that is supportive of individual career goals, that meets degree requirements of the Department of Journalism and Communication, including the intermediate level of a foreign language, and fulfills General Education requirements.

### INTERNSHIPS AND ON-THE-JOB TRAINING

Because of the strong relationships which the department has developed with the Chattanooga area mass media, journalism, broadcast and public relations students have many opportunities to meet and work with professionals in television and radio news, in public relations, advertising and on daily and weekly newspapers.

**Internships:** Helping students locate internships on newspapers, in publishing houses, in public relations and fund development departments, in advertising agencies, and in radio and television newsrooms is a vital part of the education program provided by the department.

A Journalism Professional Advisory Council works with the department to provide internships that give on-the-job experience. The department also participates in the General Conference internship program in which students work in various denominational institutions. The college radio station, WSMC FM90.5 and the community newspapers, *East Hamilton County Journal* and *Hamilton County News Leader*, provide learning opportunities for students in a number of courses.

**Campus Publications:** Students can gain valuable experience as writers and editors by working on Student Association publications such as *Southern Accent*, the campus newspaper, and *Southern Memories*, the yearbook.

### ASSESSMENT OF MAJORS

To make satisfactory progress toward preparation for the job market, students majoring in the department will be expected to attend the annual editor-in-residence meetings, the annual Communication Career Day meetings, departmental assemblies, and other presentations of guest professionals sponsored by the department.

Students should demonstrate their growing professionalism through involvement in the operation of WSMC FM90.5; in the publication of the *Southern Accent*, *Southern Memories*, or some other publication; or

in communication activities for a campus, church, or community organization.

Participation in the departmental Communication Club and the Southern Society of Adventist Communicators as well as student membership in a national professional organization such as the Society of Professional Journalists, the International Association of Business Communicators, or the Public Relations Student Society of America are also evidences of professional commitment.

A cumulative evaluation form will be kept in departmental files for each student majoring in the department. This form will serve as a source of information for teachers asked to provide recommendations for students seeking practicums, internships, or job positions. Information concerning evidence of professional growth and achievement will be added by the departmental faculty annually and a copy of the form shared with the student near the end of each school year.

Students in the department will be given a writing skills test when they take JOUR 103, Introduction to Mass Communication, and JOUR 205, News Reporting. On the basis of the results, advisers will recommend any needed remediation, which students must complete before registering for other writing courses offered by the department. Another form of the writing skills test will be administered when students in the department take JOUR 314, Broadcast News Writing, JOUR 355, Reporting Public Affairs, or PREL 365, Public Relations Techniques. Results of the test will be part of the information in a student's cumulative evaluation form.

Departmental effectiveness will be assessed by combining the results of the cumulative evaluations, student evaluations of courses, questionnaires completed by seniors near the time of graduation and again three years afterwards, questionnaires completed by supervisors of interns, and overall program assessment by the advisory council. An ongoing analysis of outlines of courses required for majors is made by the faculty to determine that the curriculum meets the objectives of the department and the standards of the Accrediting Council of Education in Journalism and Mass Communication.

### **BACHELOR OF ARTS DEGREE IN JOURNALISM, BROADCAST JOURNALISM OR PUBLIC RELATIONS**

#### **Major—Journalism (News Editorial): 30 hours**

JOUR 103	Introduction to Mass Communication . . . . .	3 hours
JOUR 205	News Reporting . . . . .	3 hours
JOUR 212	Copyediting . . . . .	2 hours
JOUR 314	Broadcast News Writing . . . . .	3 hours
JOUR 315	Photojournalism . . . . .	2 hours

JOUR 316	Magazine and Feature Article Writing . . . . .	3 hours
	or	
	ENGL 314 Creative Writing	
	or	
	JOUR 495 Honors Project	
JOUR 355	Reporting Public Affairs . . . . .	3 hours
JOUR 425	Reporting in Special Areas . . . . .	3 hours
	or	
	ENGL 313 Expository Writing	
JOUR 427	Mass Media Law and Ethics . . . . .	3 hours
JOUR 487	History of Mass Communication . . . . .	3 hours
	or	
	JOUR 488 Mass Communication and Society	
	Departmental electives . . . . .	2 hours

**Required Cognates:**

ART 109	Publications Design . . . . .	3 hours
ECON 213	Survey of Economics . . . . .	3 hours
PLSC 254	American National and State Government . .	3 hours
	Literature elective (D-2) . . . . .	3 hours
	Music and Art Appreciation elective (D-3) . .	3 hours
	Intermediate level of a foreign language . . .	6 hours

**Recommended Electives:**

JOUR 497	Journalism Internship . . . . .	3 hours
MATH 215	Statistics . . . . .	3 hours
PREL 234	Public Relations Principles and Theory . . . .	2 hours
TECH 145	Introduction to Graphic Arts . . . . .	3 hours
CPTC 245/345	Computer-Aided Publishing . . . . .	3 hours

Completion of at least 12 hours in each of three or more of the following areas: Behavioral Science, Business and Economics, Education, Health Science, History and Political Science, Literature and Fine Arts, Natural Science, Recreation and Physical Education, Religion, and Technology.

**Typical Sequence of Courses for**

**B.A. JOURNALISM**

(NEWS EDITORIAL)

		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	JOUR 212	Copyediting		2
JOUR 103	Intro to Mass Com.	3		JOUR 314	Broadcast News Writing		3
JOUR 205	News Reporting		3	JOUR 315	Photojournalism		2
JOUR 225	Intro Photography (if needed)		3	ECON 213	Survey of Economics	3	
ART 109	Publications Design		3	PLSC 254	American Government	3	
	Area D-1, Inter F. Lang	3	3		Gen Ed, Minor or Elect	6	9
	Gen Ed, Minor or Elect		4		Area B, Religion	3	15
	Area B, Religion		3				16
		15	16				

**YEARS 3 AND 4**

JOUR 316	Magazine and Feature Writing <u>OR</u> ENGL 314 Creative Writing <u>OR</u> JOUR 495 Honors Project	3
JOUR 355	Reporting Public Affairs	3
JOUR 425	Reporting in Special Areas <u>OR</u> ENGL 313 Expository Writing	3
JOUR 427	Mass Media Law and Ethics	3
JOUR 487	History of Mass Communication <u>OR</u> JOUR 488 Mass Communication & Society	3
JOUR 497	Journalism Internship (Rec. summer before Year 4)	3
	Area B, Religion	6
	Area D-2, Literature	3
	Area D-3, Music and Art Appreciation	3
	General Education, Minor or Elective	32
		62

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major—Broadcast Journalism: 30 hours**

JOUR 103	Introduction to Mass Communication . . . . .	3 hours
JOUR 205	News Reporting . . . . .	3 hours
JOUR 201	Foundations of Broadcasting . . . . .	3 hours
JOUR 302	Broadcasting Techniques . . . . .	3 hours
JOUR 314	Broadcast News Writing . . . . .	3 hours
JOUR 317	Broadcast Management . . . . .	3 hours
JOUR 427	Mass Media Law and Ethics . . . . .	3 hours
JOUR 487	History of Mass Communication . . . . .	3 hours

or

JOUR 488 Mass Communication and Society

**Two of the following: . . . . . 6 hours**

JOUR 315	Photojournalism (3 hours)	
JOUR 227/327	Video Production (3 hours)	
JOUR 355	Reporting Public Affairs (3 hours)	
JOUR 423	Broadcast Programming (3 hours)	
JOUR 425	Reporting in Special Areas (3 hours)	
JOUR 497	Journalism Internship: Broadcasting (3 hours)	

**Required Cognates:**

BMKT 326	Introduction to Marketing . . . . .	3 hours
PLSC 254	American National and State Government . . . . .	3 hours
PREL 234	Public Relations Principles and Theory . . . . .	2 hours
SPCH 236	Oral Interpretation . . . . .	3 hours

or

SPCH 135 Introduction to Public Speaking  
Intermediate level of a foreign language . . . . . 6 hours

**Recommended Electives:**

HMNT 205	Arts and Ideas . . . . .	3 hours
MATH 215	Statistics . . . . .	3 hours
TECH 183	Basic Electronics . . . . .	3 hours
CPT 245/345	Computer-Aided Publishing . . . . .	3 hours

**Typical Sequence of Courses for  
B.A. BROADCAST JOURNALISM**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	BMKT 326	Intro to Marketing		3
JOUR 103	Intro to Mass Com	3		JOUR 314	Broadcast News Writing		3
JOUR 201	Found of Broadcast		3	PREL 234	Public Relations Prin		2
JOUR 205	News Reporting		3	PLSC 254	American Government	3	
	Area D-1, Int For Lang	3	3	SPCH 236	Oral Interpretation	3	
	Area B, Religion	3			Area B, Religion	3	
	Gen Ed, Minor or Elect	3	4		Gen Ed, Minor or Elect	6	8
		15	16			15	16

**YEARS 3 AND 4**

JOUR 302	Broadcasting Techniques		3
JOUR 317	Broadcast Management		3
JOUR 427	Mass Media Law and Ethics		3
JOUR 487	History of Mass Communication <b>OR</b> JOUR 488 Mass Communication & Society		3
JOUR 497	Broadcast Journalism Internship (Recommend summer before Year 4)		3
	Approved Broadcast Journalism Electives		6
	Area B, Religion		6
	General Education, Minor or Electives		32
			62

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major—Public Relations: 30 hours**

JOUR 103	Introduction to Mass Communication	3 hours
JOUR 205	News Reporting	3 hours
JOUR 225	Introduction to Photography	3 hours
JOUR 316	Magazine and Feature Article Writing	3 hours
JOUR 355	Reporting Public Affairs	3 hours
	or	
JOUR 425	Reporting in Special Areas	
JOUR 427	Mass Media Law and Ethics	3 hours
	or	
JOUR 488	Mass Communication and Society	
PREL 234	Public Relations Principles and Theory	2 hours
PREL 344	Fundamentals of Advertising	2 hours
PREL 365	Public Relations Techniques	3 hours
PREL 406	Persuasion and Propaganda	3 hours
PREL 480	Case Studies in Public Relations	2 hours

**Required Cognates:**

ART 109	Publications Design	3 hours
BMKT 326	Introduction to Marketing	3 hours
SPCH 135	Introduction to Public Speaking	3 hours
CPTE 245/345	Computer-Aided Publishing	3 hours
	Intermediate level of a foreign language	6 hours
	Literature or Fine Arts elective (D-2 or D-3)	3 hours



**Recommended Electives:**

JOUR 212	Copyediting	3 hours
JOUR 302	Broadcasting Techniques	2 hours
JOUR 314	Broadcast News Writing	3 hours
JOUR 227/327	Video Production	3 hours
MATH 215	Statistics	3 hours
PREL 368	Fund Development	3 hours
PREL 497	Public Relations Internship	3 hours
TECH 145	Introduction to Graphic Arts	3 hours

**Typical Sequence of Courses for  
B.A. PUBLIC RELATIONS**

<u>YEAR 1</u>	<u>Semester</u>			<u>YEAR 2</u>		<u>Semester</u>	
	<u>1st</u>	<u>2nd</u>		<u>1st</u>	<u>2nd</u>	<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3				
JOUR 103	Intro to Mass Com	3		JOUR 205	News Reporting	3	
PREL 234	Public Relations Prin		2	JOUR 225	Intro to Photography	3	
ART 109	Publications Design	3		PREL 344	Fund of Advertising		2
SPCH 135	Intro to Public Spkg		3	CPT 245	Comp-Aided Publishing		3
	Area D-1/Inter For Lang	3			Area B, Religion	3	
	Area B, Religion	3			Gen Ed, Minor or Elect	6	11
	Gen Ed, Minor or Elect		5			15	16
		15	16				

**YEARS 3 AND 4**

JOUR 316	Magazine and Feature Writing	3
JOUR 355	Reporting Public Affairs <u>OR</u> JOUR 425 Reporting in Special Areas	3
PREL 365	Public Relations Techniques	3
JOUR 427	Mass Media Law <u>OR</u> JOUR 488 Mass Communication and Society	3
PREL 406	Persuasion and Propaganda	3
PREL 480	Case Studies	2
PREL 497	Public Relations Internship (Rec. summer before Year 4)	3
BMKT 326	Intro to Marketing	3
	Area D-2 or D-3, Literature or Fine Arts	3
	Area B, Religion	6
	General Education, Minor or Electives	30
		62

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Minor—Advertising: 18-19 hours**

ART 109	Publications Design	3 hours
BMKT 326	Introduction to Marketing	3 hours
CPT 245/345	Computer-Aided Publishing	3 hours
JOUR 103	Introduction to Mass Communication	3 hours
PREL 344	Fundamentals of Advertising	2 hours
PREL 354	Advertising Copywriting	2 hours
	Select from the following	2-3 hours
ART 110	Design Principles (3 hours)	
BMKT 327	Consumer Behavior (3 hours)	
BMKT 423	Promotional Strategy (3 hours)	
JOUR 225	Introduction to Photography (3 hours)	
PREL 406	Persuasion and Propaganda (3 hours)	
PREL 244	Personal Selling	
PREL 297/397	Practicum: Advertising (1-3 hours)	

**Minor—Journalism (News Editorial): 18 hours**

JOUR 103	Introduction to Mass Communication . . . . .	3 hours
JOUR 205	News Reporting . . . . .	3 hours
JOUR 212	Copyediting . . . . .	2 hours
	One of the following: . . . . .	3 hours
	JOUR 316 Magazine and Feature Article Writing	
	JOUR 355 Reporting Public Affairs	
	JOUR 425 Reporting in Special Areas	
	One of the following: . . . . .	3 hours
	JOUR 427 Mass Media Law and Ethics	
	JOUR 487 History of Mass Communication	
	JOUR 488 Mass Communication and Society	
	Electives . . . . .	4 hours
	Electives from Journalism major requirements or	
	ART 109, CPTÉ 245/345, ECON 213, PLSC 254	

**Minor—Broadcast Journalism: 18 hours**

JOUR 103	Introduction to Mass Communication . . . . .	3 hours
JOUR 201	Foundations of Broadcasting . . . . .	3 hours
JOUR 205	News Reporting . . . . .	3 hours
JOUR 302	Broadcasting Techniques . . . . .	3 hours
JOUR 314	Broadcast News Writing . . . . .	3 hours
	Electives . . . . .	3 hours
	From Broadcast Journalism major requirements or	
	BMKT 326, PLSC 254, PREL 234, PREL 244, SPCH 236	

**Minor—Public Relations: 19 or 20 hours**

ART 109	Publications Design . . . . .	3 hours
JOUR 103	Introduction to Mass Communication . . . . .	3 hours
JOUR 205	News Reporting . . . . .	3 hours
PREL 234	Public Relations Principles and Theory . . . . .	2 hours
PREL 344	Fundamentals of Advertising (2 hours) . . . . .	2 or 3 hours
	or	
	BMKT 326 Introduction to Marketing (3 hours)	
PREL 365	Public Relations Techniques . . . . .	3 hours
CPTÉ 345	Computer-Aided Publishing . . . . .	3 hours

**Minor—Sales: 18 hours**

BMKT 326	Introduction to Marketing . . . . .	3 hours
JOUR 103	Introduction to Mass Communication . . . . .	3 hours
PREL 344	Fundamentals of Advertising . . . . .	2 hours
PREL 343	Advertising Copywriting . . . . .	2 hours
BMKT 327	Consumer Behavior . . . . .	3 hours
PREL 244	Personal Selling . . . . .	2 hours
	Select from the following . . . . .	3 hours
	BMKT 328 Sales Management (3 hours)	
	BMKT 423 Promotional Strategy (3 hours)	
	PREL 406 Persuasion and Propaganda (3 hours)	
	PREL 297/397 Practicum: Sales (3 hours)	

**JOURNALISM**

**JOUR 103. Introduction to Mass Communication (G-2) 3 hours**

Overview of the development and characteristics of mass media, with emphasis on media in the United States including newspapers, radio, television, photography, film, sound recording, books, magazines, advertising, public relations, and new media technology. Attention is given to theories of communication and how to be a critical and discriminating consumer of mass media.

**JOUR 201. Foundations of Broadcasting 3 hours**

Provides an understanding of broadcasting and related industries. Basic theories and practices of radio, television, cable operations, and other electronic media are covered. (Alternate years)

**JOUR 205. News Reporting (G-2) 3 hours**

Prerequisite: Ability to type at least 30 wpm.  
 News gathering and research techniques; development of newswriting skills and style. Emphasis on clarity of writing, accuracy, balance and fairness and on meeting deadlines in covering news events and interviewing news sources. Oral communication emphasis: Interviewing.

**JOUR 212. Copyediting 2 hours**

Prerequisite: JOUR 205 or consent of instructor.  
 Principles and practices of preparing copy for publication including headline writing, picture editing, and writing photo captions. Use of the Associated Press Stylebook. Focus is on accuracy, newsworthiness, language effectiveness, legality, and good taste in editing copy. (Alternate years)

**JOUR 225. Introduction to Photography (G-1) 3 hours**

Instruction in use of the camera and light meter; study of elements that constitute good photo composition, darkroom techniques involving film development, negative enlargement and print finishing. Students supply their own 35mm cameras with adjustable f-stops and shutter speeds. A limited number of rental cameras are available. Two hours of lecture, three hours of laboratory each week. Supply lab fee of \$95 charged in addition to tuition.

**JOUR 302. Broadcasting Techniques 3 hours**

Introduction to audio production in the context of the broadcast station. Instruction in the technical aspects of production for radio and television. Techniques in announcing for a variety of program types including commercials, news, interviews, and talk shows. (Alternate years)

**JOUR 314. Broadcast News Writing (W) 3 hours**

Prerequisite: JOUR 205 or consent of instructor.  
 Gathering information, interviewing, writing and editing for the broadcast media. Preparation of news and feature copy for release on the college radio station; instruction in writing spot announcements. (Alternate years)

- JOUR 315. Photojournalism (G-1)** **2-3 hours**  
 Prerequisite: JOUR 225 or equivalent.  
 Advanced photographic and darkroom techniques with emphasis on photojournalism, creative use of the camera in producing photo essays, picture stories for publication and photo collections for exhibit. Students supply their own cameras with adjustable f-stops and shutter speeds. One hour of lecture, three hours of laboratory each week. Supply lab fee of \$95 charged in addition to tuition.
- JOUR 316. Magazine and Feature Article Writing (W)** **3 hours**  
 Researching, writing and marketing the factual magazine piece and the newspaper feature article. Developing writing style through creative use of the English language. Oral communication emphasis: Interviewing and reading aloud.
- JOUR 317. Broadcast Management** **3 hours**  
 Prerequisite: JOUR 201 and 302.  
 The 100,000-watt college radio station WSMC-FM 90.5 provides the setting in which students learn the principles of broadcast management as they apply to radio and television. Class members become familiar with day-to-day station operations, including control room procedures, announcing, production, broadcast news and programming. Professionals from both radio and television serve as lecturers. (Alternate years)
- JOUR 227/327. Video Production** **3 hours**  
 Introduction to the basic procedures of producing non-studio video programs. Emphasis will be given to lighting, audio, and editing techniques. The student will make extensive use of portable video and video editing equipment. Supply lab fee of \$50 charged in addition to tuition. (Alternate years)
- JOUR 355. Reporting Public Affairs (W)** **3 hours**  
 Prerequisite: JOUR 205.  
 Reporting the actions of local, state and federal governments, politics, education, religion, economics, social and environmental issues, with emphasis on background research and investigative reporting. Oral communication emphasis: Interviewing. (Alternate years)
- JOUR 297/397. Practicum** **1-3 hours**  
 Prerequisite: Consent of instructor before arranging for practicum.  
 Supervised work experience in print or broadcast journalism. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.
- JOUR 423. Broadcast Programming** **1-3 hours**  
 Prerequisite: JOUR 201.  
 A study of audiences and audience research, programming theories, and formats used in modern broadcast program planning. Emphasis also given to current FCC regulations and policies governing the broadcast industry. (Every third summer)

**JOUR 425. Reporting in Special Areas (W) 3 hours**

Prerequisite: JOUR 205 or consent of instructor.

Writing interpretative articles and commentary after extensive research, interviews, and analysis. Based on interest and background, the student will select two of the following specialized areas in which to write: business and economics, education, religion, health, mass media, the arts, nature and the environment, government and society, recreation and entertainment, and science and technology. May be repeated once with different areas selected. Oral communication emphasis: Interviewing. (Alternate years)

**JOUR 427. Mass Media Law and Ethics 3 hours**

Study of the legal, ethical and constitutional issues affecting the media and the news gathering and dissemination process. Concepts of libel, privacy, free press, fair-trial, contempt of court, access to information, protection of sources, copyright law and government regulation of the media.

**JOUR 165/465. Topics in Communication 1-3 hours**

Selected topics in broadcast journalism, print journalism, public relations, or related areas of communication.

**JOUR 487. History of Mass Communication (W) 3 hours**

Development of the press in the United States from colonial times to the present, its influence on American government and institutions; rise of the mass media system, including newspapers, magazines, advertising, public relations, radio, television and the impact of the media system on society. Oral communication emphasis: Presenting reading and research reports. (Alternate years)

**JOUR 488. Mass Communication and Society (W) 3 hours**

This seminar provides for informed student participation in the examination of the role and function of the mass media system in the United States; the concept of social responsibility as a constraint upon the media; ethical, social, economic and political issues involved in the function of newspapers, magazines, radio, television, advertising and public relations. Emphasis on reading, writing media critiques and on analysis of concepts and ideas. The course also includes an introduction to research methods for the study of mass communication. Oral communication emphasis: Presenting reading and research reports. (Alternate years)

**JOUR 295/495. Directed Study 1-4 hours**

For students who want to do independent research and writing in a specialized area of the mass media. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

**JOUR 497. Journalism Internship 3 hours**

Prerequisite: Completion of half the requirements for a major or minor in broadcast or news editorial journalism and departmental approval before arranging for internship.

Students work at a newspaper, magazine, broadcast station, or other agency to obtain on-the-job journalism experience, preferably during an eight- to 12-week period the summer between the junior and senior year when no other college course is taken. At least 270 clock hours of work experience are required. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**PUBLIC RELATIONS**

**PREL 234. Public Relations Principles and Theory 2 hours**

Basic Public Relations principles, philosophy and theory as they relate to the historical development and contemporary practice of public relations; analysis of the public relations role in business, industry and non-profit organizations and of the functions and responsibilities of the public relations practitioner.

**PREL 244. Personal Selling 2 hours**

Principles and techniques of selling products and services based on understanding of buyer behavior, time and stress management, and effective persuasion. (Alternate years)

**PREL 344. Fundamentals of Advertising 2 hours**

Advertising theories and principles; fundamentals of advertising copy writing, layout and design. Overview of research and campaign planning for public relations and marketing. (Alternate years)

**PREL 354. Advertising Copywriting 2 hours**

Principles and practices in writing and preparing advertising messages for the mass media. Analysis of successful advertising copy as well as opportunity for students to develop their own copywriting skills are part of the course. Social responsibility and ethics of the advertiser and copywriter are an integral part of instruction. (Alternate years)

**PREL 365. Public Relations Techniques 3 hours**

Prerequisite: JOUR 205 and CPT 245/345.

Communications techniques used in public relations to identify and reach specified audiences through mass media channels and through controlled media. Preparation of press releases, brochures, newsletters, reports, audio-visuals, speeches and media campaigns; planning and conducting special events.

**PREL 368. Fund Development 1-3 hours**

Study of fund-raising principles and concepts; techniques used in planning, organizing and carrying out a fund-raising campaign; developing prospect lists, writing proposals, identifying and training development leadership, working with foundations. (Every third summer)

**PREL 297/397. Practicum 1-3 hours**

Prerequisite: Consent of instructor before arranging for practicum.

Supervised work experience in public relations, advertising, or sales. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**PREL 406. Persuasion and Propaganda 3 hours**

Historical origin and contemporary uses of propaganda; the concept of public opinion; motivational tools and techniques to achieve public response; characteristics of publics and how they are influenced. (Alternate years)

**PREL 480. Case Studies in Public Relations 2 hours**

The public relations function in the context of the organizational communications and decision-making process. Application of communications theory and techniques in developing both internal and external communications systems in terms of organizational nature and purpose; selected case studies. (Alternate years)

**PREL 295/495. Directed Study 1-4 hours**

For students who want to do independent research and writing in a specialized area of public relations, advertising or marketing. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

**PREL 497. Public Relations Internship 3 hours**

Prerequisite: Completion of half the requirements for a major or minor in public relations and departmental approval before arranging for internship.

Students work at a public relations office, department or agency to obtain on-the-job public relations experience, preferably during an eight- to 12-week period the summer between the junior and senior year when no other college course is taken. At least 270 clock hours of work experience are required. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**WORKSHOPS**

**JOUR 175/475. Communication Workshop 1-3 hours**

One semester-hour credit will be available for 40 clock hours of active participation in workshops conducted by the department in such areas as free-lance writing, news writing, video production, editing newsletters, crisis communication, public relations writing, fund raising, writing for student publications, editing student publications, and advising student publications. Advanced students may earn additional credits by completing a project started during the workshop. May be repeated for credit. (Summer)

# MATHEMATICS

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Chair: Lawrence Hanson  
Faculty: Robert Moore, Art Richert

Throughout recorded history mathematics and mathematical thinking have influenced man's culture to an extent that even many well-educated people fail to appreciate. *The Elements* of Euclid, the invention of a place-value numeration system, the invention of the calculus, the development of statistical inference, and more recently the development of computers, to name just a few, are mathematical contributions to civilization which have significantly affected the philosophies, commerce, science, and technology of mankind.

The Mathematics Department seeks to transmit this mathematical heritage to the students of Southern College by (1) introducing students to mathematical concepts and techniques and the disciplined, logical thinking required to successfully apply them to a variety of problem-solving experiences, (2) providing a stage of the formal education of professional mathematicians, (3) educating teachers of mathematics, and (4) providing appropriate courses for users of mathematics.

## PROGRAMS IN MATHEMATICS

In addition to meeting graduation requirements listed below and elsewhere in this catalog, mathematics majors must satisfy the following two requirements:

1. Take two courses, in or outside the Mathematics Department, which have an oral communication component. Mathematics courses which have this component are MATH 319, 415, 485.
2. Take the Educational Testing Service Major Field Achievement Test in Mathematics during the senior year.

**Major (B.A.):** Thirty hours including MATH 181, 182, 200 or 319, 216, 218, 318, 411, and 485. Secondary certification requires MATH 215 and 415. CPTR 131 is a cognate requirement.



Typical Sequence of Courses for  
B.A. MATHEMATICS

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	MATH 218	Calculus III	4	
MATH 181,182	Calculus I, II	3	4	MATH 216	Set Theory & Logic	2	
CPTR 131	Fund Prog I	3		MATH 200	Elem Lin Algebra	2	
	Area B, Religion		3		Area B, Religion	3	
	Area F-1, Behav Sci		3		Area C-1, History	3 3	
	Area F-2, Family Sci				Area E, Science	3 3	
	OR	2			Area G-1, Creat Skills		
	AREA F-3, Hlth Sci				OR	2	
	Area G-3, Rec	1			Area G-3, Recreation		
	Area D-1/Beg For Lang	3	3		Elective or Minor	3 3	
		15	16			16	15
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
MATH 318	Algebraic Structures*	3		MATH 411	Inter Analysis*	3	
MATH	UD Elective	3	3	MATH	UD Elective	3	
	Area B, Religion	3		MATH 485	Math Seminar*	1	
	Area C-2/Pol Sci/Econ	3			Area B, UD Religion	3	
	Area D, Lit/Fine Arts/ Speech		3		Electives or Minor	9 12	
	UD Electives		3			16	15
	Electives or Minor	4	6				
		16	15				

\*These courses may be offered during the 3rd or 4th year.

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major (B.S.):** Forty hours including MATH 181, 182, 216, 218, 317, 318, 319, 411, 412, and 485. Secondary certification requires MATH 215 and 415. Cognate requirements are CPTR 131; PHYS 211-212, 213-214.

Typical Sequence of Courses for  
B.S. MATHEMATICS

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	PHYS 211-212	General Physics	3 3	
MATH 181, 182	Calculus I, II	3	4	PHYS 213-214	General Physics Lab	1 1	
CPTR 131	Fund Prog I	3		MATH 218	Calculus III	4	
	Area B, Religion		3	MATH 216	Set Theory & Logic	2	
	Area F-1, Behav Sci		3	MATH	Elective	3	
	Area F-2, Fam Sci				Area B, Religion	3	
	OR	2			Area C-1, History	3 3	
	Area F-3, Hlth Sci				Area G-1, Creat Skills		
	Area G-3, Recreational	1			OR	2	
	Electives	3	3		Area G-3, Recreational		
		15	16		Electives	4	
						16	16

# MATHEMATICS

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
MATH 318	Algebraic Structures*	3		MATH 411-412	Inter Analysis*	3	3
MATH 319	Linear Algebra*		3	MATH 485	Mathematics Seminar*	1	
MATH 317	Complex Variables*		3	MATH	Elective	3	3
MATH	Elective		3		Area D,Lang/Lit/F Art	3	3
	Area B, Religion		3		Area B, UD Religion	3	
	Area C-2, Pol Sc/Econ		3		Electives	3	6
	Area D,Lang/Lit/F Art		3			18	15
	Area E, Science		3				
	Electives	4	3				
		16	15				

\*These courses may be offered during the 3rd or 4th year.

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Minor:** Eighteen hours including MATH 181 and six hours of upper division courses.

**Certification to Teach:** Secondary certification in Mathematics requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 158.

## MATHEMATICS

### MATH 080. Elementary Algebra (A-2) 3 hours (Non-Credit)

This remedial course covers the content of first-year high school algebra. It is required of all students who meet NONE of the following criteria: 1) ACT math standard score of 16 or above; 2) ACT math elementary algebra subscore of 8 or above; 3) high school Algebra II with a grade of C or better. Tuition for three semester hours will be charged for this course. (Fall, Spring, Summer)

### MATH 090. Intermediate Algebra (A-2) 3 hours (Non-Credit)

Prerequisite: MATH 080 or exemption.

Number systems and their properties, exponents, and radicals, equations and inequalities, polynomial functions and their graphs, systems of equations, logarithms. Tuition for three semester hours will be charged for this course. (Fall, Spring, Summer)

### MATH 103. Survey of Mathematics (A-2) 3 hours

Prerequisite: MATH 080 or exemption.

Basic concepts from the following topics: sets, mathematical logic, numeration systems, number theory, probability, statistics, algebra, geometry, metric system, consumer mathematics. This course does not apply on a major or minor in mathematics. (Fall, Spring)

- MATH 120. College Algebra (A-2)** **3 hours**  
 Prerequisite: Two years of high school algebra or MATH 090.  
 The real and complex number systems; algebraic equations and inequalities; functions and their graphs including polynomial, rational, exponential, and logarithmic functions; conic sections. This course does not apply on a major or minor in mathematics. (Fall, Spring, Summer)
- MATH 121. Trigonometry (A-2)** **2 hours**  
 Pre- or corequisite: MATH 120 or equivalent.  
 The trigonometric and inverse trigonometric functions and their graphs, trigonometric equations and identities, trigonometric form of complex numbers, applications. This course does not apply on a major or minor in mathematics. (Fall, Spring)
- MATH 181. Calculus I** **3 hours**  
 Prerequisite: MATH 120 or a high school precalculus course.  
 Differential and integral calculus of the elementary functions (non-trigonometric) including limits, continuity, the derivative, computation of derivatives, applications of the derivative, the definite integral, the fundamental theorem of calculus, computation of antiderivatives, applications of the definite integral. (Fall, Spring)
- MATH 182. Calculus II** **4 hours**  
 Prerequisite: MATH 121 or equivalent and MATH 181.  
 Precise definitions of limits, calculus of the trigonometric functions, further topics in differential and integral calculus, polar coordinates, analytic geometry, parametric equations, sequences, infinite series, Taylor series, vectors. (Spring)
- MATH 200. Elementary Linear Algebra** **2 hours**  
 Prerequisite: MATH 181.  
 Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, applications. (Spring)
- MATH 215. Statistics (A-2)** **3 hours**  
 Prerequisite: An ACT mathematics standard score of 22 or above, or two years of high school algebra, or MATH 090, or MATH 103.  
 An introduction to descriptive and inferential statistics including organization and analysis of data, elementary probability, probability distributions (binomial, normal, Student's  $t$ , chi-square,  $F$ ), estimation, hypothesis testing, correlation and regression, nonparametric statistics. (Fall, Spring)
- MATH 216. Set Theory and Logic** **2 hours**  
 Prerequisite: MATH 181.  
 An introduction to some of the basic ideas, terminology, and notation of logic and sets. The concept of a mathematical proof will be emphasized. (Spring)
- MATH 218. Calculus III** **4 hours**  
 Prerequisite: MATH 182.  
 Partial derivatives, multiple integrals, vector calculus including Green's theorem, Stokes's theorem, and the divergence theorem. (Fall)

- MATH 280. Applied Mathematics for Computer Science** 3 hours  
Prerequisite: MATH 120.  
An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)
- MATH 315. Differential Equations** 3 hours  
Prerequisite: MATH 182.  
Classification and solution of common types of ordinary differential equations, power series solutions, systems of linear differential equations, the Laplace transform, applications to problems in the physical sciences. (Spring)
- MATH 316. Partial Differential Equations** 3 hours  
Prerequisite: MATH 315.  
Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)
- MATH 317. Complex Variables** 3 hours  
Prerequisite: MATH 216, 218.  
An introduction to the theory of analytic functions of a complex variable, including mappings by elementary functions, complex integration, the Cauchy Goursat theorem, Cauchy's integral formula, power series, Laurent series, the theory of residues, and conformal mapping. (Spring, odd years)
- MATH 318. Algebraic Structures** 3 hours  
Prerequisite: MATH 216, 218.  
The structure of groups, rings, integral domains, and fields. (Fall, even years)
- MATH 319. Linear Algebra** 3 hours  
Prerequisite: MATH 181, 216.  
Finite dimensional vector spaces and the attendant concepts of systems of linear equations, linear transformations, matrices, determinants, eigenvalues and eigenvectors. (Spring, odd years)
- MATH 405. Numerical Analysis** 3 hours  
Prerequisites: MATH 218, 315, and a knowledge of programming.  
Interpolation and approximation, numerical differentiation and integration, numerical methods of solving algebraic and differential equations, error analysis. (Spring, even years)
- MATH 411-412. Intermediate Analysis** 3,3 hours  
Prerequisite: MATH 216, 218.  
The real number system, sequences, limits and metric spaces, continuity, uniform continuity, introduction to point set topology, properties of the derivative and integral, convergence and uniform convergence of sequences and series of functions, orderings. (Fall, odd years; Spring, even years)

**MATH 415. Geometry** **3 hours**

Prerequisite: MATH 181, 216.

Topics selected from the following: foundations of Euclidean geometry, finite geometries, advanced Euclidean geometry, non-Euclidean geometry, geometric transformations, the geometry of inversion, projective geometry. (Fall, odd years)

**MATH 465. Nursing Statistics** **3 hours**

Prerequisite: MATH 090, or 103, or equivalent and permission from the Department of Nursing and the Department of Mathematics.

Descriptive and inferential statistics with an emphasis on techniques and tests which are most often used in nursing research. Topics are selected from the following: organization and analysis of data, probability, various parametric and nonparametric probability distributions, estimation, hypothesis testing, correlation and regression. This course is designed for community registered nurses who are working on advanced degrees and is offered periodically at the request of the Department of Nursing.

**MATH 475. Mathematics in the Sciences** **1 hour**

Prerequisites: All mathematics and science courses required for the B.A. degree in social and Natural Science Studies.

A study of the ways in which elementary (precalculus) mathematics is used in the natural and social sciences. This course does not apply on a major or minor in mathematics. (Spring)

**MATH 485. Mathematics Seminar (W)** **1 hour**

Prerequisite: Permission of Mathematics staff.

Written and oral reports are made on a variety of topics in mathematics including topics in current mathematical literature. Mathematics majors obtaining secondary certification must choose topics in the history and philosophy of mathematics. (Fall, odd years)

**MATH 295/495. Directed Study** **1-3 hours**

Prerequisite: Approval by department faculty.

Individual reading and problem solving in a field chosen in consultation with an instructor. This course may be repeated for credit. (On demand)

**EDUCATION**

**EDUC 438. Curriculum and Content Methods/Mathematics** **2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks. (Fall)

# MODERN LANGUAGES

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Chair: Helmut Ott  
Faculty: Mari-Carmen Gallego

This department offers the opportunity for students to discover French, German, and Spanish not only as living languages but also as reflections of the cultures, customs, and peoples they represent. The aim, then, is to provide both an aesthetic background and a practical tool in the event the student becomes an overseas traveler or worker.

The ability to communicate with people is increasingly essential in today's shrinking world, and an acquaintance with a foreign culture should be part of the background of educated persons, particularly those with a sense of world mission. The Department of Modern Languages aspires toward helping Christians fulfill this responsibility to demonstrate good will, whether as travelers and business people or as respondents to the Master's gospel commission.

## FOREIGN STUDY

*Adventist Colleges Abroad.* Southern College is a member of the consortium of colleges and universities which, under the auspices of the General Conference of Seventh-day Adventists, supports the Adventist Colleges Abroad program. ACA provides an opportunity for students of French, German, or Spanish to achieve proficiency in the foreign language amid the added advantages of an authentic cultural setting.

The following institutions are affiliates of ACA: in Austria, Seminar Schloss Bogenhofen, Braunau; in France, Séminaire Adventiste, Collonges-sous-Salève; and in Spain, Colegio Adventista de Sagunto, Sagunto.

## BACHELOR OF ARTS DEGREE IN FRENCH, GERMAN, OR SPANISH

**Major (B.A.)—French, German or Spanish:** Thirty-six hours distributed as follows:

1. The intermediate level of the target language taken prior to the ACA year 6 hours
2. A minimum of three semester hours each in (1) Culture and Civilization, and (2) Literature 6-12 hours
3. Additional language courses focusing on speaking, reading, listening, and writing to bring the total to 36 semester hours. At least 14 semester hours must be upper division.

18-24 hours  
TOTAL 36 hours

Typical Sequence of Courses for  
B.A. French

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ENGL 101-102	College Composition	3	3	FREN 207-208	Intermediate French	3	3
EDUC 135*	Intro to Education	3		EDUC 217*	Psyco Found of Educ	2	
RELT 138*	Adventist Heritage	3		PEAC	PE Activity	1	
FREN 101-102	Elementary French	3	3	HIST 154	Amer Hist & Instit		
MATH 103	Survey of Math				or		
	Another A-2 course	3		BIOL 103	Prin of Biology	3	
SPCH 135	Intro to Public Spkg		3		or		
	Another D-4 course			RELB	Religion Elective	3	
HIST 175	World Civilization			RELT 255*	Christian Beliefs		3
	or			ERSC 105	Earth Science		
	Another C-1 Course		3		or		
PSYC 128*	Developmental Psych		3	HLED 173	Another Area E course		3
PEAC	PE Activity		1	HMNT 205	Life and Health		2
		15	16		or		
				EDUC 250*	Arts and Ideas		
					or		
					Another D-3 course		3
					Technology in Ed		2
						13	16

<b>YEAR 3—Institut Adventiste du Salève**</b>				<b>YEAR 4</b>		<b>Semester</b>	
						<b>1st</b>	<b>2nd</b>
<b>Quarter 1</b>							
FREN 211	Phonetics	2		ENGL 214	Survey of Amer Lit		
FREN 221	Intermed Composition	3			or		
FREN 231	Intermed Orthography	3			Another D-2 course		3
FREN 251	Intermed Oral Exp	3		EDUC 356*	Tests & Measurements	2	
FREN 254	Relig Conversation	2		RELB	UD Religion	3	
		13		EDUC 437	Curr & Gen Methds	2	
				EDUC 427*	Current Issues in Ed	2	
				MATH 215	Statistics		3
<b>Quarter 2</b>							
FREN 471	French Civilization	3		PLSC 204	World Geography		3
FREN 311	Phonetics	2		EDUC 438	Curr & Content Methds	2	
FREN 301	Advanced French	6		PEAC	PE Activity	1	
HIST 301	French History	2		EDUC 432	Reading in Content	2	
FREN 321	Adv Composition I	3		EDUC 462	Organization & Ldrshp	1	
		16		ENGL 314	Creative Writing		3
					Elective		3
						15	15
<b>Quarter 3</b>							
FREN 461	Literary Discussion	2		<b>Semester 9 (For certification only)</b>			
FREN 472	French Civilization	3		EDUC 468	Enhanced Student Tchg	8	
FREN 381	Survey of French Lit	2					
FREN 331	Adv Orthography I	3					
FREN 351	Adv Oral Expression I	3					
FREN 425	French Rhetoric	5					
		18					

\*Students not pursuing certification to teach may replace these courses with others that fulfill their personal graduation requirements.

\*\*This is a suggested sequence. For the specific requirements that must be met, see under Major (B.A.): French, German, Spanish on page 216.

Typical Sequence of Courses for  
B.A. German

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	GRMN 207-208	Intermediate German	3	3
EDUC 135*	Intro to Education	3		EDUC 217*	Psyc Found of Educ	2	
RELT 138*	Adventist Heritage	3		PEAC	PE Activity	1	
GRMN 101-102	Elementary German	3	3	HIST 154	Amer Hist & Instit or Another C-1 course	3	
MATH 103	Survey of Math			BIOI 103	Prin of Biology or Another Area E course	3	
SPCH 135	Intro to Public Spkg or Another D-4 course	3		RELB	Religion Elective	3	
HIST 175	World Civilization or Another C-1 Course	3		RELT 255*	Christian Beliefs	3	
PSYC 128*	Developmental Psych	3		ERSC 105	Earth Science or Another Area E course	3	
PEAC	PE Activity	1		HLED 173	Life and Health	2	
		15	16	HMNT 205	Arts and Ideas or Another D-3 course	3	
				EDUC 250*	Technology in Ed	2	
						13	16

**YEAR 3—Seminar Schloss Bogenhofen\*\***

		Semester	
		1st	2nd
GRMN 231	Rdng/Pronunciation	1	
GRMN 221	Conversation I	1	
GRMN 205	Spelling I	1	
GRMN 211	Comp/Dictation I	2	
GRMN 201	Grammar I	4	
HUMN 201	History of Fine Arts	3	
HIST 204	European Civilization	2	
GRMN 301	Grammar II	4	
GRMN 305	Spelling II	1	
GRMN 311	Comp/Dictation II	2	
GRMN 321	Conversation II	1	
GRMN 331	Rdg/Pronunciation II	1	
GRMN 355	Surv of Grmn Lit	3	
BUAD 301	In to Cntrl Euro Bens	2	
RELH 304	The Reformation	2	
		14	16

**YEAR 4**

		Semester	
		1st	2nd
ENGL 214	Survey of Amer Lit or Another D-2 course	3	
EDUC 356*	Tests & Measurements	2	
RELB	UD Religion	3	
EDUC 437	Curr & Gen Methds	2	
EDUC 427*	Current Issues in Ed	2	
MATH 215	Statistics	3	
PLSC 204	World Geography	3	
EDUC 438	Curr & Content Methds	2	
PEAC	PE Activity	1	
EDUC 432	Reading in Content	2	
EDUC 462	Organization & Ldrshp	1	
ENGL 314	Creative Writing	3	
	Elective	3	
		15	15

**Semester 9 (For certification only)**

EDUC 468	Enhanced Student Tchg 8
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\*Students not pursuing certification to teach may replace these courses with others that fulfill their personal graduation requirements.

\*\*This is a suggested sequence. For the specific requirements that must be met, see under Major (B.A.): French, German, Spanish on page 216.



Typical Sequence of Courses for  
B.A. SPANISH

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	SPAN 207-208	Intermediate Spanish	3	3
EDUC 135*	Intro to Education	3		EDUC 217*	Psyc Found of Educ	2	
RELT 138*	Adventist Heritage	3		PEAC	PE Activity	1	
SPAN 101-102	Elementary Spanish	3	3	HIST 154	Amer Hist & Instit or		
MATH 103	Survey of Math or Another A-2 course	3		BIO1 103	Prin of Biology or		
SPCH 135	Intro to Public Spkg or Another D-4 course		3	RELB	Religion Elective	3	
HIST 175	World Civilization or Another C-1 Course		3	RELT 255*	Christian Beliefs		3
PSYC 128*	Developmental Psych		3	ERSC 105	Earth Science or Another Area E course		3
PEAC	PE Activity		1	HLED 173	Life and Health		2
		15	16	HMNT 205	Arts and Ideas or Another D-3 course		3
				EDUC 250*	Technology in Ed		2
						13	16
<b>YEAR 3—Colegio Adventista de Sagunto**</b>				<b>YEAR 4</b>		<b>Semester</b>	
<u>Quarter 1</u>						<u>1st 2nd</u>	
SPAN 201	Spanish Folklore	2		ENGL 214	Survey of Amer Lit or Another D-2 course		3
SPAN 251	Interm Span Grammar	4		EDUC 356*	Tests & Measurements	2	
SPAN 261	Intermed Span Comp	2		RELB	UD Religion	3	
SPAN 271	Intermed Span Conver	2		EDUC 437	Curr & Gen Methds	2	
ART 321	Hist of European Art	2		EDUC 427*	Current Issues in Ed	2	
GEOG 311	Geography of Spain	2		MATH 215	Statistics	3	
		15		PLSC 204	World Geography		3
<u>Quarter 2</u>							
SPAN 312	Spain & Its Culture	2		EDUC 438	Curr & Content Methds	2	
SPAN 331	Hist of Span Lit	3		PEAC	PE Activity	1	
SPAN 352	Adv Spanish Grammar I	4		EDUC 432	Reading in Content	2	
SPAN 362	Adv Span Comp I	2		EDUC 462	Organization & Ldrshp	1	
SPAN 372	Adv Spanish Conver I	2		ENGL 314	Creative Writing	3	
HIST 302	History of Spain	3			Elective		3
		16				15	15
<u>Quarter 3</u>				<b>Semester 9 (For certification only)</b>			
SPAN 353	Adv Spanish Grammar I	4		EDUC 468	Enhanced Student Tchg 8		
SPAN 363	Adv Spanish Comp I	2					
SPAN 373	Adv Spanish Conver I	2					
SPAN 332	Hist of Spanish Lit	3					
SPAN 313	Spain & Its Culture	2					
SPAN 272	Inter Span Conversat	2					
		15					

\*Students not pursuing certification to teach may replace these courses with others that fulfill their personal graduation requirements.

\*\*This is a suggested sequence. For the specific requirements that must be met, see under Major (B.A.): French, German, Spanish on page 216.

**Minor—French, German or Spanish:** Eighteen hours excluding course 101-102 but including course 207-208 and six hours of upper-division courses. Students desiring a language minor must earn all upper division credits either at ACA or in two summer terms in an intensive language program previously approved by this department.

## BACHELOR OF ARTS IN INTERNATIONAL STUDIES (INST)

**Major—International Studies:** This major is intended to offer basic language and literature within a framework of international cultural dimensions. Such a program is sometimes considered a "humanities" major. To complete this program in either French, German, or Spanish, students must spend at least one semester on an ACA campus overseas.

For the International Studies major, thirty hours are required, as listed below. A cognate requirement of RELT 368, Comparative Religions (3 hours), may be taken as one of the required general education courses (area B).

SPAN (or GRMN or FREN) 207-208 (Intermediate Level) . . . .	6 hours
Composition and Conversation . . . . .	3 hours
Culture and Civilization . . . . .	3 hours
Additional hours in language and literature for students desiring teaching endorsement, or the intermediate level of a second language for all others . . . . .	
ART 344 History of Art . . . . .	3 hours
ENGL 445 World Literature . . . . .	3 hours
MUHL 115 Listening to Music . . . . .	3 hours
HIST 354 History of Latin America for students whose target language is Spanish, and HIST 386 Rise of the West OR HIST 389 Vienna to Vietnam for all others . .	3 hours
<b>TOTAL 30 hours</b>	

## TEACHER PREPARATION PROGRAM

### I. Philosophy

The teacher preparation program of the Modern Languages Department is based on the belief that competent language teachers possess at least near native mastery of the target language, have a realistic understanding of and genuine appreciation for the culture of the peoples who speak it, and are able to apply sound educational principles and effective methodologies to their teaching practice.

Such a competency requires that the candidates spend at least one school year living and learning in a country where the target language is spoken, and that they build a solid foundation in the principles and methods of education in general and of the teaching of modern languages in particular.

### II. OBJECTIVES

The overall objective of the Modern Languages teacher preparation program is to enable the candidates to master the contents, develop the skills, and apply the methodologies required for effective language teaching.

## 1. Content Objectives

### A. Speaking

Enable the candidates to achieve near native mastery of the target language particularly as it relates to vocabulary, sentence structure, and oral expression. This includes the ability to converse in a way that is easily understood by native speakers about everyday situations and non-technical topics of current public interest.

### B. Reading

Help the candidates to acquire the linguistic expertise needed to read materials of a newspaper level of difficulty on one hand, and literary texts on the other.

### C. Listening

Help the candidates master the language well enough to be able to follow without major difficulty radio/TV news reports, a conversation among native speakers, interviews, and short lectures dealing with non-technical topics.

### D. Writing

Help the candidates develop writing skills needed to take notes in the target language and to write cohesive summaries, to write social correspondence, and to produce a short essay about a personal experience or current event of public interest.

### E. Culture and Civilization

Help the candidates develop a knowledge, understanding, and appreciation of the culture of the peoples who speak the target language. This includes their daily patterns, societal structures, institutions, and value systems. It also includes general knowledge of the historical, geographical, political, sociological, artistic, and literary aspects of the target culture. In the process the candidates will also develop the ability to compare and contrast the target culture with their own, and to see how they relate, contribute to, and enrich each other.

## 2. Professional Objectives

The professional component of the program is designed to provide the candidate with:

A. A theoretical framework about education, the learner, the learning process, and the acquisition of language.

B. Knowledge of various theories and methods of foreign language instruction and the ability to modify instruction as appropriate to language and student population.

C. Understanding of the developmental nature of language proficiency and the ability to measure student proficiency in various skills appropriate to the language being taught and the level of instruction.

- D. Ability to convey to many different audiences, including students, parents, administrators, businesses, and community, the importance of foreign language proficiency as it relates to local needs and interests.

## DESCRIPTION OF COURSES

### I. Courses Offered at the SC Campus

#### FRENCH

**FREN 101-102. Elementary French (D-1) 3,3 hours**

Prerequisite: FREN 101, or equivalent.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level.

**FREN 207-208. Intermediate French (D-1) 3,3 hours**

Prerequisite: FREN 101-102, or two years of French in secondary school, or a satisfactory score on a standardized examination, or approval of the department.

Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (FREN 207 is offered Fall; 208, Spring.)

#### GERMAN

**GRMN 101-102. Elementary German (D-1) 3,3 hours**

Prerequisite: GRMN 101, or equivalent.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level.

**GRMN 207-208. Intermediate German (D-1) 3,3 hours**

Prerequisite: GRMN 101-102, or two years of German in secondary school, or a satisfactory score on a standardized examination, or approval of the department.

Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (GRMN 207 is offered Fall; 208, Spring.)

#### SPANISH

**SPAN 101-102. Elementary Spanish (D-1) 3,3 hours**

Prerequisite: SPAN 101, or equivalent.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level.

**SPAN 207-208. Intermediate Spanish (D-1) 3,3 hours**

Prerequisite: SPAN 101-102, or two years of Spanish in secondary school, or a satisfactory score on a standardized examination, or approval of the department.

Advanced grammar; intensive and extensive reading of moderately difficult Spanish texts; oral and written exercises. Laboratory work is required. (SPAN 207 is offered Fall; 208, Spring)

**EDUCATION**

**EDUC 438. Curriculum and Content Methods/Modern Languages 2 hours**

Prerequisite: Admission to Teacher Education.

Learning and teaching a foreign language, in both theory and practical application, with special attention to goals, planning, classroom techniques, selection and utilization of materials and aids, and evaluation of student performance.

(D-1), (D-2), (W) See pages 52-56 for explanation of General Education requirements.

**II. Courses offered at the ACA campuses**

**1. Institut Adventiste de Collonges**

**FREN 111. Phonetics 1-2 quarter hours**

Familiarization with the French system of phonetics and the primary rules of spelling. Includes exercises in transcription.

**FREN 151. Beginning Oral Expression 1-3 quarter hours**

For students without conversational skills. Students will learn how to ask and answer simple questions and will use in short dialogues or oral descriptions the sentence structure, vocabulary, and syntax studied in FREN 101.

**FREN 154. Religious Conversation 1-2 quarter hours**

Conversation on spiritual topics. Study of the principal personalities of the Bible.

**FREN 211. Phonetics 1-2 quarter hours**

Familiarization with the French system of phonetics and the primary rules of spelling. Includes exercises in transcription and a laboratory period.

**FREN 221. Intermediate Composition 2-3 quarter hours**

Fundamental principles of French composition and stylistics.

**FREN 251. Intermediate Oral Expression 1-3 quarter hours**

For students having a basic knowledge of French. They will learn how to function in a socially acceptable way in French culture by using the vocabulary, syntax, and sentence structure studied in FREN 201 class in dialogues, role plays, and varied activities.

**FREN 254. Religion Conversation 1-2 quarter hours**

Conversation on spiritual topics. Study of the teachings of Jesus in the parables.

**FREN 301. Advanced French 6 quarter hours**

For students scoring sufficiently high on the placement test or those having completed FREN 201.

- FREN 311. Phonetics** **1-2 quarter hours**  
 Familiarization with the French System of phonetics and the primary rules of spelling. Includes exercises in transcription.
- FREN 321. Advanced Composition I** **2-3 quarter hours**  
 Techniques of composition, planning and organization, narrative procedures, descriptions and development of ideas. Requirement for students preparing for the Diplôme de Langue de l'Alliance Française.
- FREN 351. Advanced Oral Expression I** **1-3 quarter hours**  
 Students will develop their ability to express their ideas on different topics concerning French culture and civilization through presentations.
- FREN 354. Religious Conversation** **1-2 quarter hours**  
 Conversation on spiritual topics. Study of several books of the Bible.
- FREN 361. Literary Discussion** **2 quarter hours**  
 Systematic reading and analysis of vocabulary style in specific French literary works. Requirement for students preparing for the Diplôme de Langue de l'Alliance Française.
- FREN 381. Survey of French Literature** **2 quarter hours**  
 A survey of French literary masterpieces from the Middle Ages to the 20th century.
- FREN 411. Phonetics** **1-2 quarter hours**  
 Familiarization with the French system of phonetics and the primary rules of spelling. Includes exercises in transcription.
- FREN 421, 422. Advanced Composition II** **2-3,2-3 quarter hours**  
 Techniques of expository writing. Study of the process of writing, analysis of the subject, narrative procedures, description and development of ideas. Requirement for students preparing for the Diplôme de Langue de l'Alliance Française.
- FREN 425, 426, 427. French Rhetoric** **2-5,2-5,2-5 quarter hours**  
 Techniques of expository writing (as for examinations). Study of the process of writing: analysis of the subject; documentation and research of ideas; complete outlining; writing of drafts and re-writing; linking of ideas in various parts of a text. Requirement for students preparing for the Diplôme de Langue de l'Alliance Française.
- FREN 431, 432, 433.**  
**Advanced Orthography** **2-3,2-3,2-3 quarter hours**  
 Intensive practical application of French orthography. Requirement for students preparing for the Diplôme de Langue de l'Alliance Française.
- FREN 441, 442, 443. Advanced Grammar** **2-4,2-4,2-4 quarter hours**  
 Systematic review of the rules of French grammar. Requirement for students preparing for the Diplôme de Langue de l'Alliance Française.
- FREN 451. Advanced Oral Expression II** **2-3 quarter hours**  
 Individual exercises and group discussion on a wide variety of current topics in order to allow the student to acquire and put into a more varied, precise, and flexible style in spoken French.
- FREN 454, 455, 456.**  
**Religious Conversation** **1-2,1-2,1-2 quarter hours**  
 Conversation on spiritual topics. Study of the Sanctuary, Daniel, and Revelation.

- FREN 461, 462. Literary Discussion** 2,2 quarter hours  
 Systematic reading and analysis of vocabulary style ideas of specific French literary works. Every quarter new authors and books of different styles are studied in depth.
- FREN 465, 466, 467. Literary Analysis** 2-3,2-3,2-3 quarter hours  
 Reading, analysis, and commentary of French literary texts. Requirement for students preparing for the Diplôme de Langue de l'Alliance Française.
- FREN 471, 472, 473. French Civilization** 2-3,2-3,2-3 quarter hours  
 A study of the main artistic trends in French history and the importance and influence of French culture from the Middle Ages to contemporary times. French life today: intellectual, artistic, political, and religious.
- FREN 481. Studies in French Literature** 2-3 quarter hours  
 A study of the history of the French literature and its different styles utilizing works from the Middle Ages to the 20th century.
- FREN 491, 492, 493. Studies in French Literature** 2-3,2-3,2-3 quarter hours  
 A study of the history of French literature and its different styles utilizing works from the 18th century to the 20th century.
- FREN 495. Independent Study** 1-4 quarter hours  
 Properly qualified students may with the consent of the Director of the Institut de Langue Française, undertake an investigation suited to their background and experience.
- HIST 301. French History** 2 quarter hours  
 This class permits students to acquire knowledge about the history of France by studying events and the political, economic, social, and religious movements in France from the time of the Romans to the present. Students are required to present research reports on different historical topics.

## 2. Seminar Schloss Bogenhofen

- GRMN 201. Grammar I** 4 hours  
 Outline of German syntax with special attention to the peculiarities of the German language and the difficulties in the declensions.
- GRMN 205. Spelling I** 1 hour  
 Taken concurrently with GRMN 201.
- GRMN 211. Composition-Dictation** 2 hours  
 Enlargement of the idiomatic use of the written language based on the previously acquired grammatical knowledge of the German language. Short essays and precis. Automatic usage of proper spelling. Training the ear to differentiate between the various sounds of the spoken language.
- GRMN 221. Conversation I** 1 hour  
 Enlargement of the vocabulary touching on various aspects; practice dialogue situations including the colloquial peculiarities and practice in the idiomatic use of the German language.
- GRMN 231. Reading & Pronunciation I** 1 hour  
 Practicing German pronunciation and improving reading comprehension through the analysis of the reading material.

- GRMN 301. Grammar II** **4 hours**  
 Prerequisite: GRMN 201 or a sufficiently high score on the placement exam. Advanced work in German syntax. Special practice in the grammatical use of the verb and the most common form of sentence structure. Course may be repeated with different content.
- GRMN 302. Grammar III** **4 hours**  
 A continuation of GRMN 301.
- GRMN 305. Spelling II** **1 hour**  
 Taken concurrently with GRMN 302. Course may be repeated with different content.
- GRMN 306. Spelling III** **1 hour**  
 Taken concurrently with GRMN 302.
- GRMN 311. Composition-Dictation II** **2 hours**  
 Prerequisite: GRMN 211 or a sufficiently high score on the placement exam. Advanced work on the idiomatic use of the written and oral language. Course may be repeated with different content.
- GRMN 312. Composition-Dictation III** **2 hours**  
 A continuation of GRMN 311.
- GRMN 321. Conversation II** **1 hour**  
 Prerequisite: GRMN 221 or a sufficiently high score on the placement exam. Advanced vocabulary training, including colloquial peculiarities. Course may be repeated with different content.
- GRMN 322. Conversation III** **1 hour**  
 A continuation of GRMN 321.
- GRMN 331. Reading & Pronunciation II** **1 hour**  
 Prerequisite: GRMN 321 or a sufficiently high score on the placement exam. Course may be repeated with different course content.
- GRMN 332. Reading & Pronunciation III** **1 hour**  
 A continuation of GRMN 331.
- GRMN 354, 355. Survey of German Literature** **3,3 hours**  
 A brief survey of German literature from the old German alliterative poems to contemporary writings.
- GRMN 495. Independent Study** **1-4 hours**  
 Properly qualified students may with the consent of the director of the language and culture program, undertake an investigation suited to their background and experience. May be taken any term. Maximum of four hours permitted.
- BUAD 301, 302. Introduction to  
 Central European Business** **2,2 hours**  
 The nature of the European business system is studied and analyzed including the role of business in society. Examinations of the functions of a business enterprise. Data processing and German correspondence.
- HIST 204, 205. European Civilization** **2,2 hours**  
 A course in Western Civilization, dealing with the historical, geographical, political, and social studies of the German-speaking countries, e.g. the Hapsburgs, central-European countries, east-west politics, policy of neutrality, newspapers, currencies, etc.



- HUMN 201, 202. History of Fine Arts** **3,3 hours**  
 Outline of European cultural history with the emphasis on the presentation of art and music of the culture European areas. Recommended for students with advanced German language skills.
- RELH 304. The Reformation** **2 hours**  
 The Church from 1526 to 1648 A.D. Zwingli and the Swiss Reformation; the Anabaptists; the continuation of the Reformation in Germany; Calvin and Calvinism; and the Counter Reformation.

### 3. Colegio Adventista de Sagunto

- SPAN 201, 202, 203. Spanish Folklore** **2,2,2 quarter hours**  
 Insight on the customs, traditions, holidays, costumes, music, songs, and dances of the Spanish people with an in-depth study on individual regions.

- SPAN 251, 252, 253. Intermediate Spanish Grammar** **4,4,4 quarter hours**  
 Review of grammar combined with oral and written practice at the intermediate level.

- SPAN 261, 262, 263. Intermediate Spanish Composition** **2,2,2 quarter hours**  
 Written Spanish with special emphasis on grammar, orthography, and syntax at the intermediate level. At least one composition due each week based on everyday topics.

- SPAN 271, 272, 273. Intermediate Spanish Conversation** **2,2,2 quarter hours**  
 Oral practice in class with emphasis on grammar, phonetics, and syntax at the intermediate level. Lab required.

- SPAN 312, 313. Spain and Its Culture** **2,2 quarter hours**  
 Lectures and readings on Spanish culture—its history, politics, arts, and literature—with special emphasis on the Spanish way of thinking.

- SPAN 331, 332, 333. History of Spanish Literature** **3,3,3 quarter hours**  
 A general study of Spanish literature from the Middle Ages to contemporary times. Recommended for students with advanced Spanish language skills.

- SPAN 351, 352, 353. Advanced Spanish Grammar I** **4,4,4 quarter hours**  
 An in-depth study of the Spanish grammar and syntax combined with both oral and written practice.

- SPAN 361, 362, 363. Advanced Spanish Composition I** **2,2,2 quarter hours**  
 Written Spanish with special emphasis on reading comprehension and compositions which incorporate the usage and understanding of studied grammatical structures. Compositions will be related to themes studied in class.

**SPAN 371, 372, 373. Advanced**

**Spanish Conversation I 2,2,2 quarter hours**

Attainment of a strong basic Spanish vocabulary with special emphasis on grammatical structures and idioms, and an understanding of the different speaking levels that exist within the language. Emphasis will also be placed on being able to understand and participate fluently and with self-confidence in a colloquial Spanish conversation. Lab required.

**SPAN 422, 423. Translation & Interpretation 2,2 quarter hours**

Prerequisites: SPAN 451, 461, and 471 at B or above grade level. SPAN 422 is a prerequisite to SPAN 423.

Translation methodology and its application to translations of Spanish texts into English and vice versa. Attention is given to the idiomatic expressions in both languages.

**SPAN 451, 452, 453.**

**Advanced Spanish Grammar II 2,2,2 quarter hours**

Review of grammar with emphasis on difficult points of grammar, orthography, syntax, and style combined with the study of expressions, idioms, and an increase in vocabulary.

**SPAN 471, 472, 473.**

**Advanced Spanish Conversation II 2,2,2 quarter hours**

Discussion at all levels of the language: colloquial, technical, and philosophical. Some of the discussions will be taken from newspapers and/or magazines. Special emphasis on syntax, style, phonetic accuracy, and vocabulary.

**ART 321, 322, 323. History of European Art 3,3,3 quarter hours**

Lectures dealing with the character and cultural climate of the epochs of European civilization as related to the fine arts. Recommended for students with advanced Spanish language skills.

**GEOG 311. Geography of Spain 2 quarter hours**

An overview of the physical as well as political geography of the country. Special attention is given to each of the Spanish regions and their peculiarities.

**HIST 301, 302, 303. History of Spain 3,3,3 quarter hours**

A general panorama of the major events which led to the formation of modern Spain; from its earliest settlers, the Reconquest, its kingdoms, to the events of the twentieth century. Recommended for students with advanced Spanish language skills.

# MUSIC

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**Chair:** Marvin L. Robertson

**Faculty:** J. Bruce Ashton, Julie Boyd, Orlo Gilbert, Judith Glass, Patricia Silver

**Adjunct Faculty:** Greg Bean, Karla Fowkes, Devin Fryling, Elaine Janzen, Nora Kile, Jan Parisi, Mark Reneau, Gordon Stangeland

The faculty of the Department of Music believes that music is one of the arts given to man by his Creator to be used in the worship of God and to enhance the quality of man's life. In harmony with this philosophy, course work is offered which meets the needs of the general college student as well as music majors and minors.

The Department of Music offers two baccalaureate degrees, the Bachelor of Music degree in music education and the Bachelor of Arts degree in music. Both degrees require courses in music theory and history, as well as a high level of achievement in a major performance area. In addition, the Bachelor of Music degree emphasizes the skills necessary for teaching music, with special emphasis on the training of teachers for the Seventh-day Adventist school system.

## ADMISSION REQUIREMENTS

Music majors must fulfill all the general admission requirements of the college. In addition, a prospective music major is required to take written and aural entrance examinations in music theory and a performance examination in the applied concentration. To obtain freshman standing as a music major the student must qualify for MUCT 111 and MUPF 189.

Further information regarding the entrance examinations may be obtained by writing the chair of the Department of Music.

## GENERAL REQUIREMENTS

**Functional Piano:** All music majors must pass a functional piano examination or pass four hours of piano secondary. (The latter may not be used as part of the applied music requirement in the Vocal/General Endorsement for teacher certification.) The functional piano examination includes the playing of hymns, scales, triads, arpeggios, several moderately easy compositions and accompaniments, and the harmonization of simple folk melodies. The functional piano examination should be passed during the first week of the first semester in residence or the student must register for applied piano instruction. (See Music Lesson Fees under Financial Policies section of this CATALOG.)

**Applied Music Credit:** One semester hour of credit will be given for fourteen half-hour lessons with a minimum of four hours of practice per lesson. Applied music concentration grades are assigned following a jury examination at the end of each semester.

**Concert and Recital Attendance:** Full-time music majors are required to attend twelve Department approved concerts per semester, except for the student teaching semester. Attendance shall include faculty and senior recitals in the student's applied concentration area. Failure to meet this requirement will nullify music major status.

**Music Ensemble Participation:** All music majors are required to participate in a music ensemble every semester in full-time residence (12 or more hours). During the student teaching semester, students are exempted from this requirement. Teacher certification candidates must, however, complete eight hours of appropriate ensembles. Appropriate ensembles are defined as follows: string majors, Symphony Orchestra; wind and percussion majors, Concert Band; voice majors, Southern Singers; keyboard majors, any of the above. Students are encouraged to participate in a variety of other ensembles as time permits.

**Senior Recital:** The candidate for the Bachelor of Music degree or the Bachelor of Arts degree will present a senior recital. The student must be registered for private instruction while preparing for the senior recital. Upon music faculty approval the senior recital requirement may be partially fulfilled through a conducting or chamber music performance.

A faculty audition of the complete program must be scheduled at least three weeks before the recital date. Unsatisfactory performance at this audition will result in a rescheduling of the recital date.

**Senior Assessment Examination:** During the senior year each graduating senior will take the nationally standardized Major Field Achievement Test. The results of this examination will be used to help determine the effectiveness of the music program and the competency level of the graduates.

## **JUNIOR STANDING**

Music majors must apply for junior standing at the end of the sophomore year. The requirements for junior standing are as follows:

- a. An overall grade point average of 2.00 for the Bachelor of Arts degree and 2.25 for the Bachelor of Music degree.
- b. A grade point average of 2.50 in all music courses.
- c. Completion of the functional piano requirement.
- d. Completion of MUCT 111-112, 121-122.
- e. Completion of four hours of credit in the student's applied music concentration area.

Faculty evaluation of the application for junior standing will result in the student's receiving one of the following classifications: (a) Pass, Bachelor of Music; (b) Pass, Bachelor of Arts; (c) Probation; (d) Fail. Junior standing requirements must be met at least two semesters before graduation.

### BACHELOR OF MUSIC CURRICULUM

The Bachelor of Music degree in music education meets state and denominational certification requirements. Students must apply for admission to the Teacher Education Program through the Department of Education and Psychology prior to taking education courses. Each student will be responsible to determine the additional courses that may be required for certification in the state of his/her choice. This information can be obtained at the Department of Education and Psychology.

State certification and graduation requirements for Music Education majors include passing the NTE Specialty Test in Music Education at the 480 level.

The following general education requirements apply only to students pursuing a Bachelor of Music degree:

A. Basic Academic Skills		9 hours
1. English	6 hours	
2. Mathematics	3 hours	
B. Religion		12 hours
1. Biblical Studies (RELB)	6 hours	
2. Religion: RELT 138, 255	6 hours	
C. History, Political and Economic Systems		9 hours
1. History	6 hours	
2. Political Science and Economics	3 hours	
D. Language, Literature, Fine Arts		3 hours
1. Foreign Languages (Intermediate level)	0-3 hours	
2. Literature	0-3 hours	
3. Speech	3 hours	
E. Natural Sciences		8 hours
1. Biology	0-3 hours	
2. Chemistry	0-3 hours	
3. Physics	0-3 hours	
F. Behavioral, Family, Health Sciences		2 hours
1. Health Science: HLED 173	2 hours	
G. Activity Skills		2 hours
1. Recreational Skills	2 hours	
	<b>TOTAL</b>	<b>45 hours</b>

**Music Core:**

MUCT 111-112	Music Theory I, II .....	6 hours
MUCT 121-122	Aural Theory I, II .....	2 hours
MUCT 211-212	Advanced Music Theory III, IV .....	6 hours
MUCT 221 222	Advanced Aural Theory III, IV .....	2 hours
MUHL 320-323	Music history courses .....	8 hours
MUPF 477	Instrumental Conducting Techniques .....	3 hours
MUPF 478	Choral Conducting Techniques .....	3 hours
MUCT 313	Orchestration and Arranging .....	<u>3 hours</u>
	<b>TOTAL</b>	<b>33 hours</b>

Keyboard proficiency must be demonstrated by passing a piano proficiency examination. Four (4) hours of keyboard secondary may be used in lieu of the proficiency examination. The four hours of keyboard may not be used as part of the applied music requirement in the Vocal/General Endorsement.

**Vocal/General Endorsement**

**A. Applied Music Concentration Voice**

Applied Concentration .....	14 hours
Appropriate Ensemble(s) .....	8 hours
Vocal and General Methods including:	
MUED 231 Music & Movement .....	2 hours
MUED 317 Voice Pedagogy .....	2 hours
MUED Elective .....	2 hours
MUED 439 Student Teaching Seminar .....	1 hours
MUPF 227, 228 Singers Diction .....	<u>2 hours</u>
<b>TOTAL</b>	<b>31 hours</b>

**B. Applied Music Concentration Keyboard**

Applied Concentration (Piano or Organ) .....	14 hours
Applied Concentration (Voice) .....	4 hours
Appropriate Ensemble(s) .....	8 hours
Vocal and General Methods including:	
MUED 231 Music and Movement .....	2 hours
MUED 317 Voice Pedagogy .....	2 hours
MUED 316 Piano Pedagogy (Piano Concentration)	
OR	
MUED 318 Organ Pedagogy	
(Organ Concentration) .....	2 hours
MUED 439 Student Teaching Seminar .....	1 hours
Service Playing (Organ Majors Only) .....	<u>2 hours</u>
<b>TOTAL</b>	<b>33-35 hours</b>

**Instrumental Endorsement**

**Applied Music Concentration**

(one instrument: wind, string, or percussion) . . . . .	14 hours
Appropriate Ensemble(s) . . . . .	8 hours
Secondary Instrument Instruction	
(must include at least two areas, excluding keyboard) . .	6 hours
Instrumental Music Methods and Materials . . . . .	6 hours
MUED 439 Pre-Student Teaching Seminar . . . . .	<u>1 hours</u>
<b>TOTAL</b>	<b>35 hours</b>

**Vocal/General and Instrumental Endorsement**

An applicant for endorsements in both areas above may complete a minimum of ten semester hours in methods and materials, provided both are represented.

**Education Core:**

Before taking education courses, the student must apply to the Education and Psychology Department for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Education and Psychology Department for admission to the professional semester.

EDUC 135 Introduction to Education . . . . .	3 hours
EDUC 217 Psych. Foundations of Education . . . . .	2 hours
EDUC 240 Education for Exceptional Child and Youth . . . . .	2 hours
EDUC 250 Technology in Education . . . . .	2 hours
EDUC 356 Tests and Measurements . . . . .	2 hours
EDUC 421 Behavior Management . . . . .	2 hours
EDUC 427 Current Issues in Education . . . . .	2 hours
EDUC 432 Reading in Content . . . . .	2 hours
EDUC 462 Organization and Leadership . . . . .	1 hour
EDUC 469 Enhanced Student Teaching K-12 . . . . .	<u>8 hours</u>
<b>TOTAL</b>	<b>26 hours</b>

**Typical Sequence of Courses for  
B.Mus. MUSIC EDUCATION**

<u>YEAR 1</u>		<u>Semester</u>				<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>					<u>1st</u>	<u>2nd</u>
MUCT 111-112	Music Theory I, II	3	3	EDUC 217	Psych Found of Ed		2		
MUCT 121-122	Aural Theory I, II	1	1	EDUC 240	Except Child & Youth			2	
ENGL 101-102	College Composition	3	3	MUCT 211-212	Adv Mus Theory III,IV	3	3		
EDUC 135	Intro to Education	3		MUCT 221-222	Adv Aur Theory III,IV	1	1		
MUPF 189	Applied Concentration	2		MUHL 320,321	History of Music	2	2		
HIST	Area C-1, Elective	3		RELT 138	Adventist Heritage	3			
	Music ensemble	1	1	MUPF 189	Applied Concen Kybrd	2	2		
RELT 255	Christian Beliefs		3	MUPF 189	Applied Concentration		2		
MUPF 189	Applied Concentration	2			Music Ensemble	1	1		
	Area C-2, Pol Sci/Econ		3	MUED 316/318	Organ or Piano Pedag		2		
		16	16		Applied Concentration		2		
					Area G-3, Rec Skills			1	
							16	16	

# MUSIC

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
EDUC 356	Tests & Measurements	2			Foreign Language		3
EDUC 250	Technology in Educ		2	EDUC 421	Behavior Mngmt		2
HLED 173	Health & Life	2		EDUC 427	Current Issues in Ed		2
MUHL 322,323	History of Music	2	2	MUPF 389	Applied Concen Kybrd		2
MUCT 313/413	Orchestration & Arr		3	MUPF 477	Inst Cond Techn		3
MUED 231	Music & Movement	2		MUPF 478	Choral Cond Techn		3
MUED 317	Voice Pedagogy	2			Music Ensemble	1	1
MUPF 389	Applied Concentration	2	2	RELB	Bible Elective		3
	Music Ensemble	1	1	HIST	Elective		3
RELB	Area B-1, Elective		3	MATH	Elective		3
	Area E, Nat Science	3	3	PEAC	PE Activity Elective		1
		16	16	EDUC 432	Reading in Content		2
				EDUC 462	Organization & Ldrshp		1
				MUED 432	Student Tchg Sem		1
						16	16

## YEAR 5

EDUC 469 Enhanced Student Tchg 8

\*\*NOTE: Organ majors must take two hours of MUPF 279 Service Playing.

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements for the make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

## BACHELOR OF ARTS DEGREE IN MUSIC

The Bachelor of Arts in music is a non-professional degree designed to give the student a broad understanding of the musical heritage of man.

**Major:** Forty hours including fourteen upper division hours and the following: Music Theory including MUCT 111-112, 121-122, 211-212, 221-222, 313 or 413; MUHL 320, 321, 322, 323; MUPF 189, 389 - Concentration; Music Ensembles.

A student must complete all general education requirements of the college.

The foreign language recommended is either French or German.

### Typical Sequence of Courses for B.A. MUSIC

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
MUCT 111-112	Music Theory I, II	3	3	MUCT 211-212	Adv Theory III,IV	3	3
MUCT 121-122	Aural Theory I, II	1	1	MUCT 221-222	Adv Aur Th III, IV	1	1
ENGL 101-102	College Composition	3	3	MUPF 189	Applied Concentration--		
MUPF 189	Applied Concentration--				Instrument/Voice	1	1
	Instrument/Voice	1	1		Music Ensemble	1	1
	Music Ensemble	1	1		Funct Piano Requirement		
	Area A-2, Mathematics		0-3		Area B, Religion		3
	Area G-3, Recreation		1		Area G-2 or G-3, Skills		2
	Area B, Religion		3		Area D-1, Foreign Lang		
	Minor or Elective	2	6-3		OR	3	3
		15	15		Lit/Fine Arts/Speech		
					Area C-1, History	3	3
					Minor or Elective		2
						15	16



YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
MUHL 320,321	History of Music	2	2	MUHL 322,323	History of Music	2	2
MUPF 389	Applied Concentration	1	1	MUCT 313	Orch & Arr		
	Music Ensemble	1			OR		3
	Area B, Religion	3		MUCT 413	Analysis of Mus Form		
	Area E, Nat Science	3	3	MUPF 389	Applied Concentration	1	1
	Area F, Behav/Fam/ Health Science	3	3		Senior Recital		
	Area C-2, Pol Sci/Econ		3		Area B, UD Religion	3	
	Minor or Elective	3	4		Minor or Elective	10	9
		16	16			16	15

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements for the make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Music Minor: Eighteen hours including the following:**

MUCT 111-112	Music Theory I and II	6 hours
MUHL 115	Listening to Music	3 hours
MUPF 189	Concentration	2 hours
MUPF 477 or 478	Instrumental or Choral Conducting Techniques	3 hours
Music Course Electives (including three hours upper division)		<u>4 hours</u>
		18 hours

**MUSIC THEORY**

**MUCT 100. Introduction to Music Theory 2 hours**

A study of the rudiments and basic vocabulary of music theory. Does not apply toward a music major or minor. This is a computer assisted course. (Spring, Summer)

**MUCT 111-112. Music Theory I and II 3,3 hours**

Prerequisite: MUCT 100 or examination.

A study of the elements which render music of all periods aurally and visually comprehensible, within simple forms and a variety of textures from one to four voices. Music Theory I may not be repeated more than once. (Fall, Spring)

**MUCT 121-122. Aural Theory I and II 1,1 hours**

A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111-112. Music majors must take this concurrently with MUCT 111-112. This is a computer assisted course. (Fall, Spring)

**MUCT 211-212. Music Theory III and IV 3,3 hours**

Prerequisite: MUCT 111-112.

An expanded and intensified study of the structure of music as begun in MUCT 111-112. In MUCT 212, contemporary music is emphasized. (Fall, Spring)

**MUCT 221-222. Aural Theory III and IV 1,1 hours**

Keyboard and sight-singing applications of materials studied in MUCT 211-212. Music majors must take this concurrently with MUCT 211-212. This is a computer assisted course. (Fall, Spring)

**MUCT 313. Orchestration and Arranging** **3 hours**

Prerequisite: MUCT 111-112.

The ranges, capabilities and limitations, and transpositions of orchestra and band instruments. Idiomatic scoring of short works for vocal and instrumental chamber groups, small orchestra, and band. Performance of exercises and analysis of scores is emphasized. (Spring, even numbered years)

**MUCT 413. Analysis of Music Form** **3 hours**

Prerequisite: MUCT 211-212 or permission of instructor.

An analytical study of musical structure from the smallest units of form to the more complex music of all historical periods. (Fall, odd numbered years)

**MUCT 295/495. Directed Study** **1-3 hours**

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the department chair prior to registration. May be repeated up to a total of three hours. (Fall, Spring, Summer)

## CHURCH MUSIC

**MUCH 215. Music in the Christian Church (D-3)** **2 hours**

An historical and philosophical survey of music in the Christian Church with particular emphasis on hymnology. (Spring)

**MUCH 315. Church Music Materials and Administration** **3 hours**

The study of worship philosophies, denominational political hierarchies, liturgies, ensemble organization, appropriate music literature for performance and administrative procedures. Students are required to prepare service music for services of various denominations.

## MUSIC HISTORY

**MUHL 115. Listening to Music (D-3)** **3 hours**

A course designed to acquaint the student with the major composers, musical styles, and forms of Western music. Two listening periods per week are required. Does not apply toward a music major. (Fall, Spring)

**MUHL 320. Chant to Chanson, 600 to 1450 (D-3) (W)** **2 hours**

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The development of musical style, beginning with plainsong and its notation, and continuing with the growth of polyphony and the appearance of secular forms. Special emphasis will be given to the evaluation of modern editions of music, particularly of the *Ars Nova*, and to investigation of problems in performance practice. (Fall, odd years)

**MUHL 321. Frottola to Fugue, 1450-1700 (D-3) (W)** **2 hours**

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor. National styles of composition throughout the Renaissance and the emergence of new ideas, particularly the monodic revolution and its resulting new form, opera. The development of the theory of common practice and the major changes in notational methods, as well as a survey of evolution of musical instruments during this period. (Spring, even years)

**MUHL 322. Suite to Symphonic Poem,  
1700-1900 (D-3) (W) 2 hours**

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The centrality of sonata form as the basis of chamber and orchestral literature; the appearance of significant small forms (as the lied and the piano piece); the analysis of representative works from all major schools. (Fall, even years)

**MUHL 323. Diverse Musical Systems,  
1900-present (D-3) (W) 2 hours**

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

A study of systems replacing tonality, including aleatoric and dodecaphonic to minimalistic; broadening of musical bases, such as the influence of folk music and non-Western theories. Projects suitable for this semester might include studies of women in music, American music, or minorities. (Spring, odd years)

**MUHL 465. Topics in Music 1-3 hours**

Selected topics in music presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

**MUSIC EDUCATION**

**MUED 136. String Materials and Methods 2 hours**

A study of the stringed instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Spring, even numbered years)

**MUED 146. Brass Materials and Methods 2 hours**

A study of tone production, performance techniques, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Fall, even numbered years)

**MUED 156. Woodwind Materials and Methods 2 hours**

A study of tone production, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of the literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Spring, odd numbered years)

**MUED 166. Percussion Materials and Methods 2 hours**

A study of percussion instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Fall, odd numbered years)

**MUED 231. Music and Movement:  
A Sequential Approach 2 hours**

A survey of the structure of music including music fundamentals, movement to music, performance skills, listening skills, and the integration of music into life activities.

**MUED 316. Piano Pedagogy** **2 hours**

Prerequisite: Two hours of MUPF 189 or equivalent.

Methods, materials, and procedures for private and class piano instruction; planning a complete program for pupils on various grade levels including technic, repertoire, and musicianship. Observation and teaching are required. (Fall, odd numbered years)

**MUED 317. Voice Pedagogy** **2 hours**

Prerequisite: Two hours of MUPF 189 or equivalent and permission of instructor.

Methods, materials, and procedures for private and class voice instruction; testing and classification of voices; physiological and psychological problems of voice production and diction. Observation and teaching are required. (Spring, odd numbered years)

**MUED 318. Organ Pedagogy** **2 hours**

Prerequisite: Two hours of MUPF 189 or equivalent.

Methods, materials, and procedures for instruction in organ; accompaniment of church services; registration of organ literature on various types of organs. Observation and teaching are required. (Fall, even numbered years)

**MUED 439. Pre-Student Teaching Seminar** **1 hour**

Prerequisite: Admission to Teacher Education.

A seminar in which the student is oriented to student teaching, including curriculum, lesson planning, professional relationships, and other matters related to student teaching. (Spring)

**APPLIED MUSIC****MUPF 108. Group Instruction (G-1)** **1-2 hours**

Beginning voice and beginning piano only. A minimum of four hours of practice and/or listening outside of class is required. (Fall, Spring)

**MUPF 129. Secondary (G-1)** **1-2 hours**

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

**MUPF 189. Concentration (G-1)** **1-2 hours**

Prerequisite: Performance examination for freshman standing.

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)

**MUPF 227. Singers Diction (G-1)** **1 hour**

A study of the pronunciation of English and Italian. (Fall, odd numbered years)

**MUPF 228. Singers Diction (G-1)** **1 hour**

A study of the pronunciation of German and French. (Spring, even numbered years)

**MUPF 279. Service Playing (G-1) 1 hour**

Prerequisite: Two hours MUPF 189 (organ) or permission of instructor.

The development of skills requisite to playing both liturgical and non-liturgical services, including hymn playing, choral and solo accompanying, conducting from the console, improvisation and modulation, and selection of appropriate preludes, offertories, and postludes. Performance experience required. (Fall, Spring)

**MUPF 329. Secondary (G-1) 1-2 hours**

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

**MUPF 389. Concentration (G-1) 1-2 hours**

Prerequisite: Four hours MUPF 189.

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)

**MUPF 477. Instrumental Conducting Techniques (G-1) 3 hours**

Prerequisite: MUCT 112 or permission of instructor.

Basic conducting techniques including beat patterns, cues, and expressive gestures, and instrumental problems. Experience in conducting instrumental ensembles is included. (Fall, odd numbered years)

**MUPF 478. Choral Conducting Techniques (G-1) 3 hours**

Prerequisite: MUCT 112 or permission of instructor.

Basic conducting techniques including beat patterns, cues, and expressive gestures, and vocal problems. Experience in conducting choral ensembles is included. (Spring, even numbered years)

Courses MUPF 108, 129, and 329 are open to any student of the College as elective credit toward the B.A. or B.S. degree. The music major or minor may not apply these toward his applied music concentration. Students desiring to study organ must pass the Functional Piano Examination.

Courses MUPF 189 and 389 are courses primarily for the music major and minor, but they may be elected by anyone who passes the examination for freshman standing. Jury examinations are required with these course numbers.

The following performance areas may be studied: voice, piano, classical guitar, folk guitar, organ, violin, viola, cello, double bass, flute, oboe, clarinet, saxophone, bassoon, trumpet, French horn, trombone, baritone tuba, and percussion instruments.

**CHORAL ENSEMBLES**

Choral ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit

each semester. Regular attendance at performances and rehearsals, including dress rehearsals, is required.

Ensembles for which academic credit is granted are organized and sponsored by the members of the music faculty.

- MUPF 118/318. Schola Cantorum (G-1)** 1 hour  
A small mixed-voice choir which specializes in performing sacred music of the Renaissance, Baroque, and Romantic eras.
- MUPF 148/348. Something Special (G-1)** 1 hour  
A small mixed-voice choir which performs both sacred and secular music in many styles. The music is frequently choreographed.
- MUPF 158/358. Die Meistersinger Male Chorus (G-1)** 1 hour  
A male-voice choir which performs music of all styles and style periods.
- MUPF 168/368. Southern Singers (G-1)** 1 hour  
A large mixed-voice choir which performs music of all style periods.
- MUPF 188/388. Vocal Ensemble Experience (G-1)** 1 hour  
A course designed to provide credit for participants in major choral works, musical productions, and other department-sponsored vocal activities. This course does not fulfill the music ensemble requirement for music majors. (Fall, Spring)

### INSTRUMENTAL ENSEMBLES

Instrumental ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at rehearsals is required.

Course numbers MUPF 178 and 378 do not fulfill the music ensemble participation requirement for music majors except those taking a keyboard concentration. Music majors other than those taking a keyboard concentration who wish Instrumental Ensemble Experience credit must be registered concurrently in Concert Band or Symphony Orchestra.

Ensembles for which academic credit is granted are organized and sponsored by members of the music faculty.

- MUPF 128, 328. Concert Band (G-1)** 1 hour  
(Fall, Spring)
- MUPF 138, 338. Symphony Orchestra (G-1)** 1 hour  
(Fall, Spring)
- MUPF 178, 378. Instrumental Ensemble Experience (G-1)** 1 hour  
A course designed to provide credit for chamber ensembles or, in the case of keyboard majors, significant accompanying experience. (Fall, Spring)

(D-3), (G-1), (W) See pages 52-56 for explanation of General Education requirements.

# NONDEPARTMENTAL COURSES

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## **COOP 265/465. Cooperative Education**

**1-6 hours**

This course allows students in any department to receive credit for professional experience in the workplace. The work must be planned as part of the specialty fields of participating students' college programs rather than prior experience. Except for specifically designed programs, all internships are conducted as cooperative education. An academic credit hour requires a minimum of 40 but no more than 60 work hours. A maximum of six credit hours is available in cooperative education. Unless specifically excepted, a student may apply no more than six credit hours of cooperative education to a major. Departments that offer credit in cooperative education must design a system to supervise and monitor participating students. The plan must describe the type and length of experiences in which students will engage, the supervisory and monitoring roles of the academic department and the work establishment, and methods of evaluating students' performance. A two-thirds tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

## **FDNT 125. Nutrition (F-3)**

**3 hours**

*This class is administered by the Nursing Department.*

A general education course introducing a student to the basic principles of human nutrition. Includes study of the nutrients and the requirements for different age groups and normal physiological conditions. Attention will be given to religious and sociological influences, taking particular note of the counsel of E. G. White. (Fall, Spring)

## **FRSH 101. Freshman Year Experience**

**3 hours**

*This class is administered by the Behavioral Science Department.*

A course designed for all freshmen, focusing on the theory and practice of attitudes and skills necessary to adjust to college life. Class assignments include but are not limited to the study of career choices, academic skills, time relationships with peers and professors, management, and sources of assistance to resolve problems common to a Christian campus. All freshmen are encouraged to enroll.

## **HMNT 205. Arts and Ideas (D-3)**

**3 hours**

*This class is administered by the History Department.*

A cultural appreciation class tracing the historical evolution of intellectual movements in western civilization. Ideas from leaders in philosophy and the arts will be studied with appropriate works from music, art, and literature. Students may participate in activities involving specific art forms. Resource persons may assist as available. This course is also taught as part of the European study tour program during selected summer sessions.

**HMNT 150/350. International Travel 1 hour**

One hour credit is offered to participants in Southern College cultural exchange programs that include tours outside the United States. The trip must last a minimum of seven days excluding air travel to and from the tour location. The itinerary must include a minimum of 20 hours in museums, historical sites, concerts, drama, and guided sightseeing to qualify for one hour credit. Students will submit written summaries/reflections of their learning experiences. Credit for this course is not granted simultaneously with credit earned in other tour classes. A complete tuition waiver applies to this class, calculated according to the policy on pages 24 and 25.

**HMNT 451, 452. Honors Seminar 1,1 hour**

*This class is administered by the History Department.*

A study of great books in religion, philosophy, science and social science that have shaped western culture. Required of students in the Southern Scholars program during their junior or senior year. Open to other students with permission of department chair. A complete tuition waiver for Southern Scholars students only applies to this class, calculated according to the policy on pages 24 and 25.

**LIBR 125. Reference (G-2) 1 hour**

*This class is administered by the McKee Library faculty.*

Designed primarily for student library assistants. The course presents the basic concepts of library services and the skills needed for efficient use of library materials. The student will be required to complete eight separate modules of study pertaining to the organization of the library and the use of general and special reference works commonly found in a college library. This course is required of all public services library workers. (Fall, Spring)

**LIBR 325. Library Materials for Children 3 hours**

*This class is administered by the Education and Psychology Department.*

Presents to the student a knowledge of a wide variety of books and related materials for children, grades 1-8. Develops an appreciation for books and reading that can be enthusiastically transmitted to young readers through critical evaluation and selection of books and materials. Correlates the use of books and materials to the specific needs and interests of young readers.

**LIBR 425. Library Materials for Young Adults and Adults 2 hours**

*This class is administered by the English and Speech Department.*

Gives emphasis to the variety of books and related materials for grades 9-12. Correlates critical evaluation and selection to the interests, use, and specific needs of the young adult as he develops his reading habits and skills. Develops an appreciation for books and readings that can dynamically involve both young adults and adults. (Fall)

**MUSP 175, 378. Instrumental Ensemble Experience (G-1) 1 hour**

A course designed to provide credit for ensemble experience in the use of various types of instruments during the year.



**NOND 227-228. Christian Service I, II****6,6 hours**

*This class is administered by the Vice President for Academic Administration in cooperation with the College Chaplain.*

Prerequisite: RELP 099.

This course is a two-semester sequence designed specifically for students who participate in the North American Division Task Force program and those who work in countries outside the United States as part of the Student Mission Program. The course consists primarily of field work. To receive twelve credit hours students must (1) complete a full academic year in a consistent, planned program of service characterized by opportunities for Christian witnessing and (2) fulfill reading assignments. Other academic activities may be designated as part of the course requirements. Periodic reports by both the participating students and supervisors are required. Students who withdraw from the program must complete a full semester and the reading assignments to receive six hours of credit. This course is for elective credit only. A 90 percent tuition waiver applies to this class, calculated according to the policy on pages 24 and 25. The policy for tuition refunds applies. The date the college receives notification of withdrawal will be the official withdrawal date. This class may not be repeated.

# NURSING

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Chair: Katie Lamb

Collegedale Faculty:

Pam Ahlfeld, Leona Gulley, Shirley Howard, Bonnie Hunt, Barbara James, Laura Nyirady, Dana Reed, MaryAnn Roberts, Kathy Schleier, Shirley Spears, Jean Springgett, Judy Winters

Collegedale Adjunct Faculty:

Bodil Morris, Jane Wright, Callie McArthur, Linda Sanders, Judith Ann Greene, Clara Lou Jones

Orlando Faculty:

Flora Flood, Millie Preussner, Erma Webb

The nursing program at Southern College is a 2+2 program that leads to a baccalaureate degree in nursing with the option to exit at the associate degree level. The holders of an associate degree from a state approved program in nursing may progress into upper division nursing. Licensed diploma graduates and associate degree graduates from a non-NLN accredited program will be evaluated on an individual basis.

The curriculum in the lower division leads to an Associate of Science degree in nursing which may be completed in two academic years, plus summer courses. At this time the student is eligible to write state board examinations to become a registered nurse.

A well-equipped learning center and a skills laboratory are provided to assist students in learning experiences.

## ASSOCIATE AND BACCALAUREATE PROGRAMS

The curriculum in the upper division provides the student an in-depth study in clinical nursing in addition to prescribed courses. Diploma graduates will be required to participate in validation procedures designed to evaluate their previous program of study.

A new class is accepted for lower division in the fall semester of each year with a limited number of students due to available clinical facilities and teachers. The upper division class is not limited in size.

## POLICIES

Students who are admitted to Nursing are considered adequately mature to realize the importance of accepting personal responsibility for their learning and professional behavior.

The Department of Nursing Student Handbook contains the policies

of the department. Each student contracts to abide by the regulations as outlined. The programs on the main campus and all extension campuses are governed by the same policies.

Transportation for clinical appointments is not provided for the students enrolled in upper division nursing courses. Students will be expected to provide their own transportation or make arrangements to share this expense with fellow students in the same course.

Because regular tuition charges and fees cannot cover the total cost of nursing education, an additional fee is charged as a "Nursing Education Fee" each semester to help offset the cost (see Special Fees and Charges under Financial Policies section of bulletin).

The Tennessee State Board of Nursing and other State Boards reserve the right to deny licensure in their states if the applicant has an unresolved felony on record in any state. The Nursing Department reserves the right to deny admission to or remove students from the nursing program who have records of misconduct, legal or otherwise, that would jeopardize their professional performance.

The Nursing Department reserves the right to revise, add, or withdraw courses as necessary to ensure a quality nursing program.

## ACCREDITATION

The programs in nursing are fully accredited by the National League for Nursing. They are recognized by the Board of Regents of the Department of Education of the General Conference of Seventh-day Adventists and approved by the Tennessee Board of Nursing.

## ASSESSMENT OF MAJORS

The Department of Nursing has an ongoing assessment program. Each AS degree student is required to write standardized NLN examinations at specific intervals. Upon completion of the required nursing courses, a comprehensive nursing examination is given. The national NCLEX-RN licensure examination is written upon graduation. The Tennessee State Board of Nursing requires an annual pass rate of 86% for first time writers on the NCLEX-RN licensure examination in order for a school to be eligible for continued approval.

To help the B.S. graduates to evaluate their academic progress and to aid the department in evaluating teacher effectiveness, each student during the spring semester of their senior year will be required to:

1. write a self-analysis
2. complete an end-of-program survey
3. complete an exit examination

## PROGRAMS IN NURSING

**Major (B.S.):** Sixty-two hours for the Bachelor of Science degree including twenty-eight of Associate degree level courses or the equivalent\* including NRS 320, 325, 326, 327, 335, 389, 484, 485, 497, 498. Cognates: RELT 373; SOCI 349; CHEM 111, 112, 114. Statistics (MATH 215) is a required course but is not considered a cognate. General education requirements include an additional three hours Area B, three hours Area C or D, three hours Area D, and one hour area G-3 to make a total of 124 semester hours of which 40 hours are upper division.

**Major (A.S.):** Thirty-four hours for the Associate of Science degree including NRS 104, 105, 114, 115, 213, 215, 217, 320. Cognates: BIOL 101-102, 225; PSYC 128; SOCI 125; FDNT 125. General education courses for Areas A, B, C, E, and F are the same as for the other disciplines of the college. Students are exempt from general education courses for Areas D and G. A total of 68 semester hours is required for the Associate of Science degree.

\*Graduates of a state-approved associate degree nursing program will be considered to have met the general education requirements for the first two years of the program, with the exception of history/humanities and English. If Area C-1 or ENGL 101-102 courses were not included in the associate degree program, they must be taken in fulfillment of the Bachelor of Science degree general education requirements. A maximum of 72 semester hours will be accepted from a college where the highest degree offered is the associate degree.

### Typical Sequence of Courses for A.S. AND B.S. NURSING

The first two years of the program lead to the Associate of Science degree and the last two years to the Bachelor of Science degree. Must include at least 68 semester hours for the associate and 124 (40 of which are upper division) for the baccalaureate degree, and make-up of any admissions deficiencies. **Note: NRS 320, either earned or by waiver, is a required course for all B.S. students.**

SUMMER

BIOL 101 Anatomy/Physiology I 3

SUMMER

PSYC 128	Area B, Religion	3
	Developmental Psych	<u>3</u>
		6

YEAR 1

		Semester	
		1st	2nd
ENGL 101	College Composition	3	
FDNT 125	Nutrition	3	
BIOL 102	Anatomy/Physiology II	3	
NRS 104	Intro to Nursing	1	
NRS 105	Foundations of Nrs	5	
NRS 114	Med-Surg I		5
NRS 115	Med-Surg II		5
BIOL 225	Microbiology		4
MATH	(If ACT below 22)		<u>3</u>
		<u>15</u>	<u>17</u>

YEAR 2

		Semester	
		1st	2nd
ENGL 102	College Composition	3	
NRS 213	Childbearing Family	4	
NRS 215	Parent-Child Nursg	4	
NRS 217	Mental Health	4	
SOCI 125	Sociology		3
NRS 320	Med-Surg III		6
	Area B, Religion		3
	Area C-1, History		<u>3</u>
		<u>15</u>	<u>15</u>

**PREREQUISITE TO YEAR 3**

CHEM 111	Survey of Chemistry	3
(NRSG 320)	Medical-Surgical III	6)

**YEAR 3**

		Semester	
		1st	2nd
NRSG 326	Prof Concepts/Issues	2	
NRSG 327	Nursing Assessment	4	
MATH 215	Statistics		3
	Area G-3, PE	1	
RELT 373	Christian Ethics	3	
CHEM 112	Survey of Chemistry	3	
CHEM 114	Survey of Chem Lab	1	
NRSG 325	Adv Physiology		4
	Area B, Religion		3
SOCW 349	Aging & Society (W)		3
		14	13

**YEAR 4**

		Semester	
		1st	2nd
NRSG 335	Comm Health Nrsng	6	
NRSG 497	Nrsng Research Mthd (W)	3	
	Area C/D		3
	Elective		2
NRSG 389	Pharmacology		2
NRSG 484	Trends/Nrsng Practice		3
NRSG 485	Management		3
NRSG 498	Seminar (W)		1
	Area D		3
			14
			12

**ADMISSION REQUIREMENTS**

The final decision on acceptance and continuation in nursing is made by the Department of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Department of Nursing. Minimum requirements for admission to nursing courses are listed below:

1. Acceptance to Southern College.
2. Have a diploma from a four-year accredited high school or the equivalent.
3. The applicant must show evidence of physical, mental, and moral fitness. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
4. Students whose native language is other than English must achieve at least 90 on the Michigan English Proficiency Test or its equivalent.
5. Students will maintain a current CPR certificate throughout the nursing program.

**Associate Degree**

1. High school grade point average of 2.50 minimum (on a 4.00 scale) on solids (math, science, English, history, foreign language).
2. Two semesters of high school chemistry with a minimum grade of C- or CHEM 111 with a minimum grade of C-.
3. Minimum ACT standard enhanced score of 16 in Math and 19 in English and composite.
4. If the high school GPA or the Enhanced ACT scores are below the minimum requirement, it will be necessary for the student to take a minimum of 12 semester college hours per semester maintaining a grade point average of at least 2.50 on a 4.00 scale in required courses leading to nursing (including three hours each of English and Math).

5. Science credits (Anatomy & Physiology, Chemistry, Microbiology, Nutrition) earned more than eight years prior to admission will not be accepted. Applicants may choose to validate knowledge by examination or by repeating the course.
6. Students with previous college work must have a minimum current and cumulative grade point average of 2.50 (on a 4.00 scale) on nursing cognate and solid courses (math, science, English, history, foreign language) before being considered for clinical nursing courses.
7. ACT scores are required of all nursing students.
8. A score of 20th percentile on the Nelson-Denny reading test prior to admission.
9. Transfer students from another nursing program will be evaluated individually and accepted on a space available basis.
10. A student who has successfully completed a practical nurse program and NRS 103, Associate Nurse Perspectives, may receive five (5) credit hours of advanced placement in nursing and will articulate directly into the second semester of nursing. The student becomes a part of the generic associate degree program after articulating into the second semester of nursing.

The following should be sent by March 1 to the College Director of Admissions: (1) application to the college (2) application to the Department of Nursing (3) high school and college transcripts (4) ACT scores. It is the applicant's responsibility to see that all application materials are received by the Nursing Department prior to the deadline.

Students accepted to clinical nursing are required to send an advance payment of \$270 to hold their place in the class. This payment also serves as the first semester's Nursing Education Fee and is in addition to the regular Advance Payment of \$1,850.

### ***Baccalaureate Degree***

Students wishing to enter the baccalaureate level nursing courses must send an application to the department's Coordinator of Admissions. **Upon acceptance to upper division nursing, courses currently listed in the catalog will be required of all students.**

Diploma graduates are required to successfully complete validation examinations at a specified level to receive college credits for prior nursing learning. **The examinations must be taken prior to registering for any nursing courses.**

Southern College's A.S. graduates prior to 1991 and transfer students from other A.S. programs must take a validation examination in order to receive advanced credit for NRS 320, Medical-Surgical III. **The validation examination must be taken prior to beginning baccalaureate level nursing courses.**

Students are responsible for the cost of taking the examination(s) and the fee charged by the college for recording advanced credit on the transcript.

Minimum requirements for admission to upper division nursing are as follows:

1. Minimum grade point average of 2.25 for lower division courses in nursing with no grade below a "C".
2. Minimum cumulative grade point average of 2.25 with no grade below "C-" for lower division cognate courses.
3. Applicants to be considered for admission to junior standing in nursing must either have a current license to practice as a registered nurse in the U.S., or if a new graduate or foreign student, be eligible to sit for state boards. A student must pass NCLEX-RN examination before registering for NRS 484 and 485.

4. Experience:

A. Applicant who has graduated within five years prior to application:

1. Satisfactory clinical performance and character references are required from basic nursing program.
2. Satisfactory work performance and character references are required from employer(s). Students who have graduated within the previous twelve months will be exempt from the work requirement.

B. Applicant who has graduated more than five years prior to application:

1. Minimum of one year satisfactory work experience in nursing for each five years since graduation and one year must be in the last five years.
2. Satisfactory work performance and character references are required from employer(s).

5. Nursing Credit:

Graduates of state approved schools will be evaluated on an individual basis. A maximum of 28 semester hours of nursing credit may be given provided that criterion #1 has been met. Advanced nursing credit will be received after successful completion of the required validation examinations.

**6. General Education and Cognates:****A. Associate Degree**

Graduates of a state approved associate degree program will be considered to have met general education requirements for the first two years of the program with the exception of History/Humanities and English provided that criterion #2 has been met. If Area C-1 or ENGL 101, 102 courses were not included in the Associate Degree program, they must be taken in fulfillment of the Bachelor of Science degree general education requirements.

**B. Diploma Graduate**

1. Credit is acceptable for courses comparable to those required at Southern College if received from an accredited senior or junior college or by examination according to the policy state in the CATALOG.

2. All cognates for the first two years must be completed before entering junior nursing courses. General education requirements may be taken concurrently.

C. CHEM 111 must be completed before entering junior level nursing courses.

**PROGRESSION REQUIREMENTS*****Associate Degree***

1. A grade of at least C (2.00) is required in each nursing course for progression and/or graduation.

2. A grade of at least C- is required in each nursing cognate with a minimum cumulative grade point average of at least 2.25 on a 4.00 scale in the cognates for admission, progression, and graduation in nursing. (Cognate courses are Anatomy and Physiology, Nutrition, Developmental Psychology, Microbiology, and Sociology.)

3. No more than two courses may be repeated. Only one may be a nursing course. Repeats may be in the following combinations: one nursing course and one cognate course, or two cognate courses.

4. Students who do not complete a semester or progress with their class, cannot be assured placement in their choice of a subsequent course.

5. A cumulative grade point average of at least 2.25 is required in both nursing and cognates for graduation.



6. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work and/or delay in progression in the program will be required if the required performance level is not achieved.
7. Any remedial contracts must be fulfilled prior to progression or graduation (see Nursing Student Handbook).
8. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Department Chair.

### ***Baccalaureate Degree***

1. A grade of at least C (2.00) is required in each nursing course for progression and/or graduation.
2. A grade of at least C- is required in each nursing cognate with a minimum cumulative grade point average of at least 2.25\* in the cognates for admission, progression, and graduation in nursing. (Cognate courses are CHEM 111-112 and 114; RELT 373; SOCI 349.)
3. No more than two courses may be repeated. Only one may be a nursing course. Repeats may be in the following combinations: one nursing class and one cognate course, or two cognate courses.
4. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Department chair.

### ***Readmission***

1. Acceptance to Southern College.
2. Submit a nursing reapplication form to the Nursing Department at least one semester prior to re-entering the program.
3. A cumulative grade point average of 2.50 on a 4.00 scale is required for readmission to the nursing program.
4. Meet specified requirements as set forth by the department relating to the individual applicant.
5. A personal interview with a designated nursing faculty member.
6. If a lapse of time greater than two years occurs in a student's program of study, prior nursing credits will not be accepted unless an applicant can validate nursing knowledge through written examination and clinical performance (for associate degree only)

## NURSING

**NRSNG 103. Associate Nurse Perspectives** **1 hour**

Prerequisite: Successful completion of the following: an approved LPN program; Nursing Mobility Profile I Examination; examination over basic skills common to all areas of nursing.

This course is designed to supplement and prepare the Licensed Practical Nurse for advanced placement and career mobility.

**NRSNG 104. Introduction to Nursing** **1 hour**

An introduction to the profession of nursing, including an overview of nursing history, nursing organizations, educational, legal and ethical issues, and opportunities of the profession. It will provide an understanding of the associate nurse role, familiarize the student with philosophy of spiritual care, and give an orientation to the program and its philosophy and conceptual framework. Open to nursing majors not yet accepted into clinical courses. (Fall)

**NRSNG 105. Foundations of Nursing** **5 hours**

Prerequisites: Chemistry (high school or equivalent), BIOL 101.

Co-requisites: FDNT 125; BIOL 102; NRSNG 104.

This course is an introduction to the physical, psychosocial, and spiritual aspects of health care. The student develops an understanding and utilization of the nursing process, and acquires basic nursing skills common to all areas of nursing with an emphasis on the adult life cycle. Three hours theory, two hours clinical. (Fall)

**NRSNG 114. Medical-Surgical Nursing I** **5 hours**

Prerequisites: BIOL 102; FDNT 125; NRSNG 104, 105.

This course provides students with the theory and practice of nursing which include selected basic needs of adults at various points on the wellness-illness continuum. This includes focusing on those with selected medical-surgical problems. The nursing process is utilized to promote physical, psychosocial, and spiritual health, intervene in illness, and assist in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

**NRSNG 115. Medical-Surgical Nursing II** **5 hours**

Prerequisites: NRSNG 114; BIOL 102.

This course provides students with the theory and practice of nursing continuing with adult needs at various points on the wellness-illness continuum. This includes focusing on the nursing process as applied to individuals experiencing select medical/surgical interferences of increased complexity; promoting physical, psychosocial, and spiritual health; intervening in illness; and assisting in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

**NRSNG 213. Nursing of the Childbearing Family** **4 hours**

Prerequisites: NRSNG 115; PSYC 128.

This course provides nursing students with theory and practice in the care of childbearing families. This includes promoting physical, psychosocial, and spiritual health of expectant mothers and their infants before, during and immediately following delivery, utilizing the nursing process. Two and one-half hours theory, one and one-half hours clinical. Course includes a speech component. (Fall)

**NRSG 215. Parent-Child Nursing** **4 hours**

Prerequisites: PSYC 128; NRSG 115.

This course provides nursing students with the theory and practice of family-centered care of children at different points on the wellness-illness continuum. Two and three-fourths hours theory, one and one-fourth hours clinical. Course includes a speech component. (Fall)

**NRSG 217. Mental Health Nursing** **4 hours**

Prerequisites: NRSG 115; PSYC 128.

This course provides students with the opportunity to utilize the nursing process in intervening with clients throughout the life span with emphasis on specific psychosocial needs at different points on the wellness-illness continuum. Two and one-half hours theory, one and one-half hour clinical. (Fall)

**NRSG 255. Perioperative Nursing** **3 hours**

Prerequisites: BIOL 101-102, 225; NRSG 104, 105.

An introduction to perioperative nursing. The course provides opportunity for applying theory and knowledge of basic sciences to practice; thus, enabling the nurse to care effectively for the client before, during, and after surgical intervention. (Theory 2 hours, Clinical 1 hour) (Spring).

**NRSG 265. Women's Issues (F-3)** **3 hours**

A study of current topics affecting women's general health. The content will focus on physical, psychosocial, and spiritual issues. **For Non-Nursing Students only.** (Spring)

**NRSG 320. Medical-Surgical Nursing III** **6 hours**

Prerequisites: BIOL 225; NRSG 213, 215, 217.

This course provides students with theory and practice of utilizing the nursing process in dealing with complex needs related to psychosocial, physical, and spiritual aspects of individuals who have acute medical-surgical interferences. The student is introduced to leadership concepts. Three hours theory, three hours clinical. Course includes a speech component. (Spring)

**NRSG 325. Advanced and Pathologic Principles of Human Physiology** **4 hours**

Pre- or corequisite: CHEM 112/114.

This course assists the student to integrate principles of physiology with clinical practice, to correlate physical manifestations with pathologic interferences, and to move toward more independent predictive care of clients. Four hours theory. (Spring)

**NRSG 326. Professional Concepts and Issues** **2 hours**

Prerequisite: NRSG 320

A course designed to assist the registered nurse student in the transition of learning from an associate degree or diploma program to the baccalaureate approach to nursing. Focus will be on the development and presentation of concepts and current issues related to professional nursing. In order to meet the objectives of the course, a field trip may be required. Course includes a speech component. (Fall)

**NRSRG 327. Nursing Assessment** 4 hours**Prerequisite:** NRSRG 320; **Pre- or corequisite:** NRSRG 326.

This course provides opportunities for creativity in the utilization of the expanding role of the clinical practitioner and enables the student to develop advanced skills in utilizing the nursing process through history taking, physical examination, health planning, and counseling of the patient/client. Three hours theory, one hour clinical. Two all-day clinical experiences are required. (Fall)

**NRSRG 335. Community Health Nursing** 6 hours**Pre- or corequisites:** NRSRG 326, 327; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families, and communities toward their optimal level of functioning on the wellness-illness continuum. This course combines community and mental health concepts. Three hours theory, three hours clinical. Course includes a speech component. (Spring)

**NRSRG 346. Community Health Nursing** 3 hours**Prerequisites:** NRSRG 326, 327; MATH 215 (desirable).

A course which includes concepts of community health, with emphasis on community assessment and working with groups. Two hours theory, one hour clinical. (Orlando Center only)

**NRSRG 347. Community Health Nursing** 3 hours**Prerequisites:** NRSRG 346; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families and communities toward their optimal levels of functioning on the wellness-illness continuum. This course combines community and mental health concepts. One hour theory, two hours clinical. Course includes a speech component. (Orlando Center only)

**NRSRG 389. Pharmacology** 2 hours**Prerequisites:** CHEM 111 and CHEM 112/114.

Study of pharmacologic concepts. Focus will include major classifications, pharmacokinetics, drug interactions, and nursing consideration. Two hours theory. (Spring)

**NRSRG 484. Current Trends in Nursing Practice****Prerequisites:** Senior standing and hold an RN license.

This course provides opportunity for the student to select an area of specialized interest in which to develop a broader scope of clinical competence. The choices of clinical areas may be limited due to the number of students in the semester. Content will focus on updating major theoretical areas and clinical skills. One and one-half hours theory, one and one-half hours clinical. (Spring)

**NRSRG 485. Management** 3 hours**Prerequisites:** NRSRG 326, Senior standing and hold an RN license.

This course provides the opportunity for the student to use independent judgment in developing beginning management skills. This goal will be accomplished primarily through the leadership modes, management and administrative experiences in selected clinical areas. Two hours theory, one hour clinical. In order to meet the objectives of the course, a field trip may be required. (Spring)

**NRS 497. Nursing Research Methods (W)****3 hours**

Prerequisites: MATH 215; ENGL 102.

Scientific methods of inquiry are applied to nursing problems including framework for practice, principles of data treatment, and analysis. The student plans a research proposal. The course is designed to give the student the concepts, methods, and tools for intelligent participation in and application of research and evaluation. Three hours theory. (Fall)

**NRS 498. Seminar (W)****1 hour**

Prerequisite: NRS 497.

A course designed for written and oral reports on topics in the nursing field. A student may elect to complete the research proposal required in research NRS 497, Nursing Research Methods. One hour theory. Course includes a speech component. (Spring)

**NRS 295/495. Directed Study****1-3 hours**

Prerequisite: Approval of department chair.

Individual study in an area of choice shall be worked out with the department prior to registration. Either upper or lower division credit may be earned. The area of directed study will appear on the transcript. No more than six hours directed study may be applied toward a degree.

(W) See pages 52-56 for explanation of General Education requirements.

**THE ORLANDO CENTER****BACHELOR OF SCIENCE — (With a Major in Nursing)**

A part-time program is offered. Admission and progression requirements are the same as those on the main campus. All diplomas and official transcripts are issued from the parent campus. For information contact:

Southern College of SDA - Orlando Center

Department of Nursing

653 Lake Estelle Drive

Orlando, FL 32803

Telephone: (407) 897-1890

or

Linda Marlowe

(615) 238-2941

# PHYSICS

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**Chair:** Ray Hefferlin

**Faculty:** Orville Bignall, Henry Kuhlman, Cyril Roe

**Adjunct:** George Viktorovich Zhuvikin

Many doors of service await students who study physics. SC physics major graduates have become academy and high school teachers, and professors and researchers in physics, in America and overseas. Also, one or more of them has served as aerospace researcher for the Apollo project, astronomical observer, chemical researcher, computer systems manager, computer network manager at large factory, corporation pilot, dentist, family-practice medical doctor, geologist, historian of science, instructor for fossil-fuel power-plant operators, instructor for nuclear-reactor operators, lawyer, mathematician, nuclear-plant walk-down engineer, oceanographer, oil-drilling engineer, planner for Space Station Freedom, radiologist, reliability designer for long-distance telephone systems, researcher in educational statistics, and statistician consultant.

## ASSESSMENT OF MAJORS

Physics majors must sit for the physics area test of the Graduate Record Examination, and must submit the test results to the Physics Department. The Physics Department has found that its graduates who have raw scores, adjusted to 1991-1992, of 600 or more do well in graduate study. Hence a student must submit a raw test score of 600 or more, and other convincing evidence that he or she will succeed, to secure the department's unqualified recommendation for graduate study.

## PROGRAMS IN PHYSICS

**Major (B.A.):** Thirty hours including PHYS 137, 155, 310, 412, and 480. Computer courses TECH 174 and PHYS 400 are strongly recommended. PHYS 480 satisfies the writing and speech components of the major.

Typical Sequence of Courses for  
**B.A. PHYSICS**  
 (Starting Odd Years)

<u>YEAR 1</u>		<u>Semester</u>			<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3		PHYS 211-212	General Physics	3	3
PHYS 155	Descrip Astronomy		3		PHYS 213-214	General Physics Lab	1	1
MATH 181	Calculus I	4			CPTR 218	FORTRAN (or Pascal)	3	
MATH 182	Calculus II		3		MATH 218	Calculus III	3	
MATH 216	Set Theory & Logic		2		MATH 315	Differential Equations	3	
	Area B, Religion	3				Area D-1, For Lang	3	3
	Area C-1, History	3	3			Area C-2, Pol Sci/Econ	3	3
	Minor or Elective	3	2			Area B, Religion	3	
		<u>16</u>	<u>16</u>		MATH 319	Linear Algebra		3
							<u>16</u>	<u>16</u>
<u>YEAR 3</u>		<u>Semester</u>			<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
PHYS 310	Modern Physics	3			PHYS 480	Scientific Wrtg	1	
PHYS 313	Physical Optics		3		PHYS 311-312	Gen Physics Cal Appl		2
PHYS 411	Thermodynamics	3			MATH 316	Partial Dif Equations	3	
PHYS 412	Quantum Mechanics		3		MATH 317	Complex Variables		3
PHYS 413	Analytic Mechanics	3				Area B, UD Religion	3	
PHYS 495	Directed Study		1			Area D, Lit/F Arts/Spch	3	
TECH 115	Arc Welding	1				Area F-1, Behav Sci	3	
TECH 174	General Metals		3			Area F-2, Fam Sci		
	Area B, Religion		3			OR	3	
	Area G-3, Rec Skills	1				F-3, Health Science		
	Area E-1, E-2, or E-4	3				Minor or Elective	7	
	Minor/Area E/ or Elective	2	3				<u>14</u>	<u>14</u>
		<u>16</u>	<u>16</u>					

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Typical Sequence of Courses for  
**B.A. PHYSICS**  
 (Starting Even Years)

<u>YEAR 1</u>		<u>Semester</u>			<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3		PHYS 211-212	General Physics	3	3
PHYS 155	Descriptive Astronomy		3		PHYS 213-214	General Physics Lab	1	1
MATH 104	Intermediate Algebra	3			PHYS 311-312	Calculus Applications		2
MATH 114	Precalculus		4		MATH 181	Calculus I	4	
CPTR	Pascal, FORTRAN, or C	3			MATH 182	Calculus II		3
	Area B, Religion	3			CPTR	Elective		3
	Area C-1, History	3	3			Area B, Religion	3	
	Area F-2, Fam Science					Area D-1, For Language	3	3
	OR		3			Area G, Creat/Rec Skls	2	
	Area F-3, Hlth Science					Minor or Elective		1
		<u>15</u>	<u>16</u>				<u>16</u>	<u>16</u>

# PHYSICS

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
PHYS 310	Modern Physics	3		PHYS 313	Optics		3
PHYS 495	Directed Study			PHYS 411	Thermodynamics	3	
	OR		1	PHYS 412	Quantum Mechanics		3
PHYS 497	Undergrad Research			PHYS 413	Analytical Mechanics		3
MATH 218	Calculus III	3		PHYS 480	Scientific Writing	1	
TECH 174	General Metals		3	MATH 485	Math Seminar	1	
AUTO 114	Oxy-Acetylene Welding	1		TECH 115	Arc Welding	3	
	Area B, Religion		3	ENGR 149	Engineering Graphics	2	
	Area C-2, Pol Science/ Economics		3		Area B, Religion (W)		3
	Area D-2, Lit/F. Arts	3			Minor or Electives	5	3
	Area F-1, Beh Sci		3			15	15
	Area G-3, Rec Skills	1					
	Area E-1, E-2, or E-4	3					
	Minor or Elective	1	3				
		15	16				

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Major (B.S.):** Forty hours including PHYS 413, 414-415, 418-419, 295/495 or 297/497, and 480. TECH 174, CPTR 105 to 107 and CPTR 425 are strongly recommended. Students are expected to subscribe to *Physics Today* and to purchase a book of integral tables. PHYS 480 satisfies the writing and speech components of the major.

## Typical Sequence of Courses for B.S. PHYSICS (Starting Odd Years)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	PHYS 311-312	Gen Phys Calc Appl		2
PHYS 211-212	General Physics	3	3	PHYS 310	Modern Physics	3	
PHYS 213-214	General Physics Lab	1	1	PHYS 411	Thermodynamics	3	
MATH 181	Calculus I	4		PHYS 412	Quantum Mechanics		3
MATH 182	Calculus II		3	MATH 218	Calculus III	3	
MATH 216	Set Theory & Logic		2	MATH 315	Differential Equations	3	
	Area C-1, History	3	3	CPTR 218	FORTRAN (or Pascal)	3	
	Area G-1 or G-3, Skls	2			Area B, Religion		3
		16	15		Area D-2, Literature		3
					Area G-3, Rec Skill	1	
				MATH 319	Linear Algebra		3
						16	14

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
PHYS 313	Physical Optics		3	PHYS 414-415	Electricity & Magnet	3	3
PHYS 413	Analytical Mechanics	3		PHYS 495	Directed Study	1	
PHYS 418-419	Advanced Quan Mech	3	3	PHYS 480	Scientific Writing		1
	Area B, Religion	3	3	MATH 316	Partial Dif Equations	3	
TECH 115	Arc Welding	1		MATH 317	Complex Variables		3
	Area F-2, Fam Science			TECH 174	General Metals		3
	OR		2		Area E-1/E-2/or E-4 Sci		3
	Area F-3, Hlth Sci				Area B, UD Religion	3	
	Area D-4, Speech		3		Area D, Lang/Fine Art	3	
PHYS	Elective		5		Area F-1, Beh Sci		3
	Area E-1, E-2, or E-4	3			Area C-2, Pol Sci/Econ	3	3
		15	17			16	16

See pages 48-50 and 52-56 for general degree and general education requirements.



Typical Sequence of Courses for  
**B.S. PHYSICS**  
 (Starting Even Years)

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ENGL 101-102	College Composition*	3	3	PHYS 155	Descriptive Astronomy	3	
PHYS 211-212	General Physics	3	3	PHYS 310	Modern Physics	3	
PHYS 213-214	General Physics Lab	1	1	PHYS 313	Optics		3
PHYS 311-312	Calculus Applications		2	MATH 216	Set Theory & Logic		2
MATH 181	Calculus I	4		MATH 218	Calculus III	3	
MATH 182	Calculus II		3	MATH 315	Differential Equations		3
CPTR	Pascal, FORTRAN, or C		3	TECH 149	Mechanical Drawing	2	
TECH 114	Oxy-Acetyl. Welding	1			Area B, Religion	3	
TECH 115	Arch Welding		1		Area C-1, History	3	3
	Area B-1, Religion		3		Area E-2, Gen Chem	3	3
		<u>15</u>	<u>16</u>			<u>17</u>	<u>17</u>
<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
PHYS 411	Thermodynamics	3		PHYS 413	Analytical Mechanics	3	
PHYS 412	Quantum Mechanics		3	PHYS 418-419	Adv Quant Mech	3	3
PHYS 414-415	Electricity & Magnet	3	3	PHYS 495	Directed Study	2	
PHYS 316	Math of Physics	3			OR		
MATH 317	Complex Variables		3	PHYS 495	Undergraduate Research		1
MATH 319	Linear Algebra		3	PHYS 480	Scientific Writing		1
	Area B, Religion	3		MATH 411,412	Inter Analysis	3	3
	Area C-2, Pol Sci/Econ	3		MATH 485	Math Seminar		1
	Area D-2, Fine Arts		3		Area B, Religion	3	
	Area F-1, Beh Science		3		Area D-2, Lit/Fine Arts	3	
	Area G-3, Rec Skills	1			Area F-2, Fam Sci		
		<u>16</u>	<u>18</u>		OR		2
					Area F-3, Health Science		
					Area G-1, Creat Skills		3
					Electives		3
						<u>17</u>	<u>14</u>

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

**Minor:** Eighteen hours including six hours upper division.

**Certification to Teach:** Secondary certification in Physics requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 158.

The student must apply to the Department of Education for admission to the Teacher Education Program and the professional semester before the end of the sophomore and junior years, respectively.

PHYSICS

**PHYS 137. Introduction to Physics (E-3) 3 hours**

An introduction to physics which assumes a one-year course in secondary-school algebra. Laboratory work is designed to clarify concepts presented in class. Satisfies the requirements for some Allied Health fields at some schools; does not apply on a B.S. major in physics. Two hours lecture, three hours laboratory each week.

**PHYS 155. Descriptive Astronomy:  
Creation and Cosmology (E-3) 3 hours**

Constellations and eclipses, astronomical instruments, time and the date line and calendars, astronomical objects with their motions and distances, energy processes in stars and quasars and pulsars, black holes, the infinity (?) and expansion (?) of the universe. Cosmology, the formation and subsequent histories of the solar system and the earth, radioactive dating. Life on other worlds. Astronomy and the Bible. Three hours lecture each week, with optional opportunities for an observation period.

**PHYS 199. Concepts of Physics 1 hour**

Prerequisites: MATH 121 concurrently.

An introduction to selected topics which often cause difficulty in PHYS 211, 212, such as torque and angular momentum, and relativity. Does not count on a B.S. major in physics. (Spring and fourth summer session)

**PHYS 211-212. General Physics (E-3) 3,3 hours**

Prerequisites: MATH 120, 121.

The algebraic and trigonometric treatment of mechanics, heat, sound, light, electricity and magnetism, and "modern physics." Applies on the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 213-214. (Fall, Spring)

**PHYS 213-214. General Physics Laboratory (E-3) 1,1 hours**

Prerequisite: Previous or concurrent enrollment in PHYS 211-212.

Laboratory experience designed to illustrate the material in lectures, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. (Fall, Spring)

**PHYS 310. Modern Physics 3 hours**

Prerequisites: PHYS 211-212; MATH 181, 182.

The theory of relativity, nuclear physics. Three hours lecture each week. Laboratory experience is available in PHYS 325. (Fall)

**PHYS 311-312. General Physics Calculus Applications 1,1 hours**

Prerequisites: MATH 181 and previous or concurrent enrollment in PHYS 211-212.

Derivations and problems in General Physics using differential and integral calculus will be studied. Students completing PHYS 211-212 and PHYS 311-312 will have taken the equivalent of General Physics with calculus. Two class periods per week. (Spring)

- PHYS 313. Physical Optics** 3 hours  
 Prerequisites: PHYS 211-212; MATH 182.  
 Refraction, reflection, interference, and absorption of light are discussed from the standpoint of the ray and especially of the wave theories of light. Laboratory experience is available in PHYS 325. (Spring, even years)
- PHYS 315. Laboratory Astrophysics** 3 hours  
 Prerequisites: PHYS 155, 211-212, 213-214, 311-312.  
 Interpretation of spectral line and band wavelengths, profiles, and intensities in terms of stars' composition, temperature, pressure, motions. Design of laboratory experiments to obtain atomic and molecular constants. Systematics of atomic and molecular data. Laboratory experience is available in PHYS 497.
- PHYS 316. Mathematics of Physics** 3 hours  
 Prerequisite: MATH 315.  
 Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)
- PHYS 317. Issues in Physical Science and Religion I (E-3)** 3 hours  
 Prerequisite: One year of high school physics or chemistry or one semester of college physics or chemistry.  
 The extent to which mathematics and the physical sciences are true because they conform to the real world, or because they are derived from axioms, or because they conform to one's understanding of Scripture. Non-logical factors in the acceptance of scientific statements as authoritative. Application of the scientific method to technology-related problems of global significance. Does not apply to a major or minor in Physics.
- PHYS 318. Issues in Physical Science and Religion II (E-3)** 3 hours  
 Prerequisites: One year of high school physics or chemistry or one semester of college physics or chemistry.  
 The argument for the existence of God from design. The relationship of design to comprehensibility and to causality. Causality in the everyday world and on the subatomic scale. Miracles as associated with awe or with the unknown (by determinists), or with boundary conditions (as in solving problems mathematically), or with God's continual upholding of natural process. Does not apply to a major or minor in Physics.
- PHYS 325. Advanced Physics Laboratory I** 1 hour  
 Prerequisites: PHYS 213-214, 310.  
 Laboratory experiments pertinent to areas of physics except electricity and magnetism. Meets once per week.
- PHYS 326. Advanced Physics Laboratory II** 1 hour  
 Prerequisites: PHYS 213-214, 310.  
 Laboratory experiments pertinent to electricity and magnetism. Meets once per week.

**PHYS 400. Physics Portfolio** **1 hour**

Each student majoring in Physics may compile a portfolio consisting of records of participation in professional activities as suggested by departmental faculty and as initiated by the student. Examples of activities include but are not limited to the following: attendance at club meetings, professional film showings, visiting-scientist seminars, and research review sessions, reading of journals and books, participation at professional meetings, preparation for graduate school and for employment, and lists of concepts or new ideas. The portfolio is reviewed upon the student's registration for this course during the senior year. The grade earned for this credit will depend upon the persistence of the student in participation during his/her stay at Southern College and during summers, and upon the breadth and depth of the entries. It also depends upon the student having his/her portfolio reviewed by the Department at the end of each preceding semester, and the extent to which the Department's suggestions on those occasions are implemented.

**PHYS 411. Thermodynamics** **3 hours**

Prerequisites: CPTR 131 or 218; PHYS 311-312; MATH 315 or permission of instructor.

A study of gases, kinetic theory, liquids, solids, and thermodynamics. Three hours of lecture each week. (Fall, even years)

**PHYS 412. Quantum Mechanics** **3 hours**

Prerequisites: PHYS 311-312; MATH 315 or permission of instructor.

The limits to classical physics, wave packets, the Schroedinger equation, eigenfunctions and eigenvalues, one-dimensional potentials. Equivalent to chapters 1-5 of Gasiorowicz plus the solution of the Schroedinger equation in spherical-polar coordinates for the hydrogen atom. (Spring, odd years)

**PHYS 413. Analytic Mechanics** **3 hours**

Prerequisites: PHYS 310 and 311-312; MATH 182, 218, 315 (MATH 316, 317, 318, 319, 411-412 desirable).

The motion of a particle in gravitational and other classical fields is attacked using the techniques of differential equations. The behavior of systems of particles, solids, and liquids is discussed. Special functions, vector theorems, transforms, and tensors are introduced as needed. Laboratory experience is available in PHYS 325. (Fall, odd years)

**PHYS 414-415. Electrodynamics** **3,3 hours**

Prerequisites: PHYS 310 and 311-312; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable).

Analysis of electrical circuits. Electrostatic and magnetostatic fields, and the motion of charges therein. Maxwell's equations and the consequent prediction of electromagnetic waves. Applications to modern atomic and nuclear theory are stressed. Complex mapping, vector theorems, transforms, and special functions may be used after being introduced or reviewed. Laboratory experience is available in PHYS 326. (Fall, even years; Spring, odd years)

**PHYS 418-419. Advanced Quantum Mechanics 3,3 hours**

Prerequisites: PHYS 310, 411, 412; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable)

The structure of quantum mechanics; review of the Thomson, Bohr, and Fermi-Thomas models; operator methods; operators, matrices, and spin; time-independent perturbation theory; corrections to the hydrogen-atom treatment; other atoms and the periodic table; emission and absorption of radiation from atoms; collision theory; elementary particles and their symmetries (Equivalent to much of the material after Gasiorowicz, chapter 6). (Fall, odd years; Spring, even years)

**PHYS 480. Scientific Writing (W) 1 hour**

Principles and techniques of writing for news releases, periodicals, and research journals. Practice in scientific meeting oral and poster-session presentation. The student must have done some original research of an experimental, computational, or theorem-proving nature before enrolling in this course. PHYS 295/495 and 297/497 exist to fulfill this requirement. (Fall)

**PHYS 295/495. Directed Study 1-3 hours**

Prerequisite: Consent of instructor.

This course consists of individual or group work adjusted to meet particular needs in Physics. Approval must be secured from the instructor prior to registration. This course may be repeated for credit. (Fall, Spring)

**PHYS 297/497. Undergraduate Research in Physics 1-2 hours**

Prerequisite: Permission of instructor.

Research under direction of a member of the staff. The topic will be assigned in accordance to the interests and capabilities of the student. May be repeated for up to four hours. This course may be repeated for credit. (Fall, Spring)

**EARTH SCIENCE****ERSC 105. Earth Science (E-4) 3 hours**

A non-mathematical and qualitative introduction, for non-science majors, to the areas of physical geography, geology, and meteorology. Special consideration is given the environment—conservation and pollution of natural resources. (Fall, Spring; Laboratory offered Fall)

**EDUCATION****EDUC 438. Curriculum and Content Methods/Physics 2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, the survey and evaluation of textbooks.

(E-4), (W) See pages 52-56 for explanation of General Education requirements.

# RELIGION

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**Chair:** Jack J. Blanco

**Faculty:** Ron Clouzet, Ron du Preez, Norman R. Gulley, Donn Leatherman, Derek J. Morris, Ronald M. Springett

**Adjunct Faculty:** Douglas Bennett, Ken Rogers, Leo Van Dolson

**Advisory Council—Ministerial Recommendations:** SC Religion Faculty, Presidents of Conferences within the Southern Union, Southern Union Ministerial Directors, Vice President for Student Services, Director of Student Finance and Accounts, head deans of the two dormitories, college chaplain, college church pastor

As an integral part of Southern College the Religion Department has been given the responsibility by the Board of Trustees to prepare young men and women for various church ministries. It also has been asked to provide general religion courses for all students. These courses are designed to enhance their commitment to Jesus Christ and their involvement in the mission of the Seventh-day Adventist Church.

## Philosophy and Objectives

The department's philosophy is based on the Scriptures being the supreme authority which forms the basis of all theological understanding and moral values. This includes the following concepts: that a personal God exists who created mankind in His own image as a free moral agent; that human beings have misused their freedom and sinned against God; and that the only way to full restoration is through Jesus Christ.

One of the earliest and continuing objectives for operating a Seventh-day Adventist college is to provide the church with a trained ministry. Closely allied to that is the objective of training effective Bible teachers for Adventist academies and colleges. Currently it is felt that the college also should make available to students pursuing careers such as medicine, dentistry, law, architecture, and other professional disciplines, a general major in Religion that will provide them with a biblical framework. In addition, it is the objective of the department to offer religion courses that will help all students in their spiritual formation.

In recognition of these needs, the Department of Religion offers three alternative programs in the major: Theology, Religious Education, and Religious Studies. The departmental objectives for each of these programs are outlined below.

## **THEOLOGY**

1. To provide an adequate pre-Seminary training in biblical backgrounds, languages, history, theology, and church ministries to meet entrance requirements to the M.Div. degree program offered by Andrews University.
2. To provide instruction and practical experience in church ministries and public evangelism as outlined in the requirements of the Certification for Ministry.
3. To provide professional training that prepares graduates to serve the church effectively in their chosen career.

## **RELIGIOUS EDUCATION**

1. To prepare the student for state and church certification (in cooperation with the Department of Education and Psychology) on the elementary or secondary levels.
2. To support candidates in meeting the requirements of the Education and Psychology Department and its certifying officer by offering a course in Curriculum and Content Methods/Bible and by supervising student teaching.
3. To qualify students to pursue graduate work in biblical and religious studies.

## **RELIGIOUS STUDIES**

1. To provide a basic course in biblical and religious studies without meeting the professional requirements of the other two majors.
2. To provide a major for students who are involved in pre-professional programs or who elect a double major, one of which is Religion.
3. To prepare students to become well-informed, local church leaders.

## **GENERAL EDUCATION COURSES**

1. To provide instruction in the Scriptures that enhances an intelligent faith in Jesus Christ.
2. To encourage development of a set of values that will provide a basis for moral decision-making in the Christian life.
3. To acquaint the students with the teachings, history, and global mission of the Seventh-day Adventist Church.

## **DEPARTMENTAL ASSESSMENT**

### **Faculty Assessment**

Effectiveness of the department's faculty or program is directly or indirectly assessed by:

1. Student evaluations of all classes administered regularly through the office of the Vice President for Academic Administration.
2. Departmental majors in the final semester of their senior year.
3. The annual meeting of the faculty with the Chair of the Board and the presidents of conferences within the Southern Union.
4. The yearly meeting of the Ministerial Training Advisory Committee (MTAC) of the North American Division at the Seventh-day Adventist Theological Seminary of Andrews University which coordinates the ministerial programs of all Religion Departments through their respective chairs.

### Student Assessment

The quality of the department's graduates as well as its general students is assessed by:

1. A 16PF taken by all Theology majors in their sophomore and senior years with norms arrived at by extensive research of the performance of successful Adventist pastors. If a student's scores differ greatly from these norms, the faculty member assigned to administer the test meets with the student to discuss potential difficulties and to suggest strategies for improvement.
2. The 16PF also provides the department with a personal evaluation of students. It is the intention of the evaluation program to help students realize their personal goals and maximize their potential. This may involve referral to a professional for personal or career counseling.
3. Classes in Homiletics, Church Ministry, Interpersonal Ministry, and the Summer Field School of Evangelism measure the student's proficiency in those areas. A performance evaluation is submitted by the instructor(s) and kept in the students' files for future reference.
4. A cumulative record of each student's activities is kept as a source of information and recommendation. This record includes attendance at lectureships, departmental assemblies, retreats, SMA activities, and other programs sponsored by the department.
5. The religion portion of the annual assessment testing program is prepared by the General Education Committee, not by the Religion Department, and is administered to all students through the office of the Vice President for Academic Administration.

**NOTE:** A summary of the evaluations referred to above will be made available in the form of a check sheet to prospective employers who request it and will be signed by the department chair on behalf of the Religion faculty.



## PROGRAM REQUIREMENTS

### Admission to Theology Program

Students seeking admission to the Theology Program must make formal application the first semester of the sophomore year. (Upper class transfer students must apply during the first semester in residence.) A program of evaluation precedes individual advancement to ministerial candidacy. The various assessment profiles will assist the student and the faculty adviser in evaluating and counseling together during the period of specialized training. If at any time, after being admitted to the Theology Program, candidates give evidence of failing to maintain commitment to the criteria or preparation for ministry, they forfeit their candidacy and the department's recommendation to the ministry. Students applying for candidacy must have 55 hours with a 2.50 overall GPA and have taken the department's 16PF to be eligible for recommendation.

### Directed Field Education

The department requires field education of Theology majors. These experiences are designed to enhance professional development by acquainting the student with the multi-faceted responsibilities of ministry, to provide a laboratory for working with experienced pastors and lay leaders in visitation of both active and inactive members, and to allow experience in preaching to area congregations. These experiences are necessary before the student can be recommended by the department for church employment.

### Summer Field School of Evangelism

Full-scale evangelistic meetings will be conducted for two months each summer under the direction of the Southern Union Conference of Seventh-day Adventists and the Department of Religion. All Theology majors are required to participate in one such crusade. The department will offer six hours of academic credit in public and personal evangelism and the Southern Union will provide a scholarship for those who are approved by the faculty to participate. Students planning to take the Summer Field School program must have 55 hours with a 2.5 cumulative GPA and RELP 321, 322 to be recommended for admittance. Applications and scholarship information may be obtained from the departmental secretary. Additional evangelistic opportunities for individual students and student teams may be made available upon approval of the department to accommodate requests from the conferences within the Southern Union.

RELP 484	Christian Theology I	3 hours
RELP 486	Christian Theology II	3 hours
	TOTAL	6 hours

## **Admission to Religious Education Program**

The Religious Education Program is coordinated with the Department of Education and Psychology for the college. Planning for certification by the states and/or endorsement by the Seventh-day Adventist church for Bible teaching is made with the certifying officer of the Education and Psychology Department, both for admission to the Religious Education program in the sophomore year and to the professional semester before the senior year.

The criteria for admission to Religious Education, requirements for secondary Bible teaching, and policies and procedures related to student teaching may be found in the college catalog under the Department of Education and Psychology and obtained from the secretary of the department in Summerour Hall.

## **Teacher Certification and Endorsement**

Those seeking Tennessee State Certification only must select 12 hours from RELB courses. Those seeking to add Denominational Teaching Endorsement to their certification must take RELT 138, 255, 484, 485, and HLED 173. All students seeking certification in religion must take EDUC 438, Curriculum and Content Methods/Bible, regardless of whether they had other special methods courses. Application for certification must be made with the Department of Education and Psychology before the end of the sophomore year.

## **Admission to Religious Studies**

The Religious Studies major is chosen by students interested in pursuing a degree other than a Theology or Religious Education degree, or by students preparing for professional fields such as medicine, dentistry, law, and other graduate studies.

It is a 124-hour liberal arts major and provides a balanced selection of both biblical studies and theology courses. The four-year degree candidate may apply the required 12 hours of General Education courses in religion toward the hours needed for the major, thus reducing the number of extra courses needed to qualify.

Theology majors who are 35 years old and, because of unusual circumstances, wish to take the Religious Studies major and be recommended for ministry, must take a Practical Theology minor and other courses as specified by the department. They will be admitted as Theology candidates if they meet the criteria as recommended by their adviser, and their individualized study program is approved by the Religion Department.

## GENERAL EDUCATION COURSES IN RELIGION

The objective in all religion courses is to enhance knowledge of and appreciation for the Scriptures, and to assist the student in gaining and maintaining a vital involvement with Jesus Christ, and a personal commitment to serve family, church, community, and the world. Six semester hours of religion are required of the two-year graduate, and 12 semester hours of the four-year graduate. This is equivalent to one three-year course per year which may be selected from any of the religion courses offered. Bachelor degree students must take at least three semester hours at the upper division level. (Detailed information on General Education requirements are found in the college catalog.)

## GRADUATION REQUIREMENTS

The candidates for graduation in the program for **Theology** must have a 2.00 overall, a 2.25 in their major and in the area of candidacy in order to graduate, and a 2.50 overall for Seminary entrance. In addition they must qualify for certification in ministry by giving evidence of moral, physical, social, and intellectual fitness. They must also demonstrate emotional maturity, and professional commitment, in order for the department to recommend them as prospective ministerial employees. Those students pursuing the **Religious Education** major must have a 2.00 overall and a 2.50 in education and in the field of certification as outlined by the Department of Education and Psychology. The **Religious Studies** candidates for graduation, from the Department of Religion, must have a cumulative grade point average of 2.00 overall and a 2.25 in their major as outlined in the college catalog.

## BACHELOR OF ARTS DEGREE PROGRAMS

The bachelor of arts degree in Theology and Religious Education requires courses in biblical studies and religion of which three are introductory with others covering the Old and New Testament, the prophetic books of Daniel and Revelation, and the Fundamental Beliefs of Seventh-day Adventists in the light of Christian Theology.

<b>Major—Theology and Religious Education</b> . . . . .	<b>33 hours</b>
RELB 125 Life and Teachings of Jesus . . . . .	3 hours
RELT 138 Adventist Heritage . . . . .	3 hours
RELB 265 Biblical Exegesis . . . . .	3 hours
RELB 345 Old Testament Studies I (W) . . . . .	3 hours
RELB 346 Old Testament Studies II . . . . .	3 hours
RELB 435 New Testament Studies I . . . . .	3 hours
RELB 436 New Testament Studies II (W) . . . . .	3 hours
RELB 425 Studies in Daniel (W) . . . . .	3 hours
RELB 426 Studies in Revelation . . . . .	3 hours
RELT 484 Christian Theology I . . . . .	3 hours
RELT 485 Christian Theology II . . . . .	<u>3 hours</u>
<b>TOTAL</b>	<b>33 hours</b>

**Major—Theology:** 33 hours in major plus 20 hours in Biblical Languages, 24 hours for certification for Ministry, and cognate requirements as follows:

**MINOR IN BIBLICAL LANGUAGES:**

RELL 271-272	Elements of New Testament Greek I,II	4,4 hours
RELL 311-312	Inter. New Testament Greek I,II	3,3 hours
RELL 471-472	Biblical Hebrew I,II	<u>3,3 hours</u>
<b>TOTAL</b>		<b>20 hours</b>

**CERTIFICATION FOR MINISTRY:**

RELT 265	Spiritual Formation I	1 hour
RELP 321	Introduction to Preaching	2 hours
RELP 322	Expository Preaching	2 hours
RELP 353	Interpersonal Ministry I	3 hours
RELP 423	Biblical Preaching	2 hours
RELP 424	Evangelistic Preaching	2 hours
RELP 451-452	Church Ministry I, II	3,3 hours
RELP 465	Personal Evangelism	3 hours
RELP 466	Public Evangelism	<u>3 hours</u>
<b>TOTAL</b>		<b>24 hours</b>

**COGNATE REQUIREMENTS: (Count toward General Education)**

PSYC 128	Developmental Psychology	3 hours
SPCH 135	Introduction to Public Speaking (D-4)	3 hours
HIST 364-365	Christian Church I,II (C-1), (W)	<u>3,3 hours</u>
<b>TOTAL</b>		<b>12 hours</b>

**GUIDELINES FOR GENERAL EDUCATION AND ELECTIVES:**

ACCT 103	College Accounting (G-2)	3 hours
CPTR 105	Word Processing (G-2)	1 hour
BUAD 128	Personal Finance (F-2)	3 hours
EDUC 134	Principles of Christian Education	2 hours
HLED 173	Health and Life (F-3)	2 hours
SOCI 223	Marriage and the Family (F-2)	2 hours
MUHL 215	Music in the Christian Church (D-3)	2 hours
ENGL 335	Biblical Literature (D-2), (W)	3 hours
PSYC 377	Fundamentals of Counseling (F-1), (W)	<u>3 hours</u>
<b>TOTAL</b>		<b>21 hours</b>

## Typical Sequence of Courses for Bachelor of Arts in Theology

<u>YEAR 1</u>	<u>Semester</u>	<u>1st</u>	<u>2nd</u>	<u>YEAR 2</u>	<u>Semester</u>	<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Comp	3	3	RELL 271-272	Elem of NT Greek	4	4
RELB 125	Tchings of Jesus	3			G-2, Comp Science	1	
RELT 138	Adventist Heritage		3	PSYC 124	Intro to Psych		3
MATH 103	Survey of Math	3		RELB 265	Biblical Exegesis	3	
SPCH 135	Intro to Public Spkg		3		C-2, Pol Sci/Econ		3
	Pers Fin/Acct/Bus	3		RELB 345	OT Studies I (W)	3	
	D-2,3 Lit/Music/Art		2	RELB 346	OT Studies II		3
	F-3, Health Sci	2		RELT 265	Spiritual Form I	1	
	F-2, Family Sci		2		Area E, Science	3	3
	G-3, Fitness	1				15	16
	Education		2				
		15	15				
<u>YEAR 3</u>	<u>Semester</u>	<u>1st</u>	<u>2nd</u>	<u>YEAR 4</u>	<u>Semester</u>	<u>1st</u>	<u>2nd</u>
RELL 311-312	Inter Greek	3	3	RELL 471-472	Bib Hebrew I,II	2	2
RELP 321	Intro to Preaching	2		RELP 423	Biblical Preaching	2	
RELP 322	Exposit Preaching		2	RELP 424	Evangel Preaching		2
RELP 353-354	Inter Ministry I,II	3	3	RELB 435-436	NT Studies I,II (W)	3	3
HIST 364-365	Christ Church I,II	3	3	RELP 451-452	Church Min I,II	3	3
RELB 425	Stud in Daniel (W)	3		RELT 484-485	Christ Theo I,II	3	3
RELB 426	Stud in Revelation		3			13	13
	G-1, 2 Skills		2				
	Gen, Music/Voice	1		<b>SUMMER FIELD SCHOOL</b>			
		15	16	RELP 465	Person Evangelism	3	
				RELP 466	Public Evangelism		3
						3	6

**Major—Religious Studies:** 33 hours in major plus 28 hours in Education and cognate requirements as follows:

### PROFESSIONAL EDUCATION REQUIREMENTS:

EDUC 135	Introduction to Education . . . . .	3 hours
EDUC 217	Psychological Foundations of Education . . . . .	2 hours
EDUC 240	Education for Exceptional Children & Youth . . . . .	2 hours
EDUC 250	Technology in Education . . . . .	2 hours
EDUC 356	Tests and Measurements . . . . .	2 hours
EDUC 427	Current Issues in Education . . . . .	2 hours
EDUC 432	Reading in Content . . . . .	2 hours
EDUC 437	Curriculum and General Methods . . . . .	2 hours
EDUC 438	Curriculum and Content Methods/Bible . . . . .	2 hours
EDUC 462	Organization and Leadership . . . . .	1 hour
EDUC 468	Enhanced Student Teaching 7-12 . . . . .	8 hours
	<b>TOTAL</b>	<b>28 hours</b>

### COGNATE REQUIREMENTS: (Count toward General Education)

SPCH 135	Introduction to Public Speaking (D-4) . . . . .	3 hours
RELL 271-272	Elements of New Test Greek, I, II (D-1) . . . . .	4,4 hours
RELP 321	Introduction to Preaching . . . . .	2 hours
RELP 322	Expository Preaching . . . . .	2 hours
	<b>TOTAL</b>	<b>15 hours</b>

**GUIDELINES FOR GENERAL EDUCATION AND ELECTIVES:**

ACCT 103	College Accounting (G-2)	3 hours
BUAD 128	Personal Finance (F-2)	3 hours
SPCH 136	Interpersonal Communication (D-4)	3 hours
HLED 173	Health and Life (F-3)	2 hours
PSYC 377	Fundamentals of Counseling (F-1), (W)	3 hours
	<b>TOTAL</b>	<b>14 hours</b>

**Typical Sequence of Courses for  
Bachelor of Arts in Religious Education**

<b>YEAR 1</b>		<b>Semester</b>		<b>YEAR 2</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
ENGL 101-102	College Comp	3	3	SPCH 135	Intro to Pub Spkg	3	
RELB 125	Tchng of Jesus	3		MATH 103	Survey of Math	3	
RELT 138	Advent Heritage		3	EDUC 217	Psych Found of Ed	2	
EDUC 135	Intro to Education	3		EDUC 240	Excep Child & Yth		2
	Per Fin/Acctg/Bus	3		RELB 265	Biblical Exegesis		3
	Area C-1, History	3	3	HLED 173	Health & Life		2
	Minor or Elective		2		Area D-4, Com/Spch		3
	Area G-1,2, Skills		2		Area F-2, Fam Sci		3
	Area D-2,3 Lit/ Music/Art		3		Area E, Science	3	3
		15	16		Electives	3	
					Area G-3, Skls	1	
						15	16

<b>YEAR 3</b>		<b>Semester</b>		<b>YEAR 4</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>			<b>1st</b>	<b>2nd</b>
RELL 271-272	Elem of NT Greek	4	4	RELP 321	Intro to Preaching	2	
RELB 345	OT Studies I (W)	3		RELT 484	Christian Theo I	3	
RELB 346	OT Studies II		3	EDUC 421	Beh Management	2	
RELB 425	Studies in Daniel	3		EDUC 427	Curr Issues in Ed	2	
RELB 426	Studies in Rev		3		Area C-2, Pol Sci	3	
RELB 435	NT Studies I	3			Area F-1, Psy/Coun	3	
RELB 436	NT Studies II (W)		3	RELP 322	Exp Preaching		2
EDUC 356	Tests & Measure	2		RELT 485	Christian Theo II		3
EDUC 250	Technology in Educ		2	EDUC 432	Reading in Content		2
		15	15	EDUC 437	Curr & Gen Meth		2
				EDUC 438	Curr & Cont Meth		2
				EDUC 462	Ed Organ & Ldrshp		1
					Minor or Elective		2
						15	14

<b>YEAR 5</b>		<b>Semester</b>	
		<b>1st</b>	<b>2nd</b>
EDUC 468	Enhanced St. Tchg	8	

**Major—Religious Studies . . . . . 30 hours**

RELB 125	Life and Teachings of Jesus	3 hours
RELT 138	Adventist Heritage	3 hours
RELT 255	Christian Beliefs	3 hours
RELB 345	Old Testament Studies I (W)	3 hours
RELB 346	Old Testament Studies II	3 hours
RELT 368	Comparative Religions	3 hours
RELT 373	Christian Ethics	3 hours
RELB 435	New Testament Studies I	3 hours
RELB 436	New Testament Studies II (W)	3 hours
RELT 467	Philosophy and the Christian Faith (W)	3 hours
	<b>TOTAL</b>	<b>30 hours</b>

**COGNATE REQUIREMENT:** (Count toward General Education)  
 SPCH 135 Introduction to Public Speaking (D-4) . . . . . 3 hours

### MINOR—IN RELIGION

A minor in Religion requires 18 hours including six hours upper division and RELB 125 and RELT 138. Only one course may be selected from RELP 321, 353, 354. Only one of the following three courses applies: RELT 317, 318, and 424. Those seeking state certification and/or denominational endorsement for teaching in other areas could, with careful selection, also acquire a minor in Religion.

### MINOR—BIBLICAL LANGUAGES

A minor in Biblical Languages requires 20 hours from RELL 271-272; 311-312; and 471-472.

### MINOR—PRACTICAL THEOLOGY

RELP 321	Introduction to Preaching . . . . .	2 hours
RELP 322	Expository Preaching . . . . .	2 hours
RELP 353	Interpersonal Ministry I . . . . .	3 hours
RELP 451-452	Church Ministry I, II . . . . .	3,3, hours
RELP 465	Personal Evangelism . . . . .	3 hours
RELP 466	Public Evangelism . . . . .	<u>3 hours</u>

**TOTAL 19 hours**

### BIBLICAL STUDIES

#### **RELB 125. Life and Teachings of Jesus (B-1) 3 hours**

A study of the life, ministry, and teachings of Jesus with special emphasis on His teachings as they apply to the personal, social, and religious problems of the individual. (Fall, Spring, Summer)

#### **RELB 165. Bible Survey (B-1) 3 hours**

This course is an introduction to the Scriptures designed to enrich the student's biblical knowledge and to prepare him/her for additional classes in Religion. It takes the form of a survey of both the Old and New Testaments and includes an exposure to principles of interpretation. Consideration also will be given to the writings of Ellen G. White as they relate to the Bible. This course may not be applied to a major or minor in Religion. Not open to students who have taken RELB 236 from previous catalogs. (Fall)

#### **RELB 175. Acts of the Apostles (B-1) 3 hours**

A study of the development of the church during apostolic times, including an introduction to the characters, issues, and events that shaped the earliest Christian communities and the theological development of the gospel by the early church. (Fall)

- RELB 265. Biblical Exegesis (B-1) 3 hours**  
This course is to introduce the student to Biblical Exegesis (i.e. the application of the principles of hermeneutics) in passages of the Bible that are representative of the various literary genres found in the Old and New Testaments. The objective is to acquaint the student with the various presuppositions that determine the choice of hermeneutical approaches to the text; with guidelines (rules) for each step of the interpretation of the text; and to provide an opportunity for involvement in the process of biblical exegesis. (Spring)
- RELB 335. Archeology and the Bible (B-1) 3 hours**  
A study of cultures, customs, languages, and rituals that throw light on the understanding of Scriptures based on archeological and other ancient material which, interpreted from the viewpoint of the Bible, emphasizes its accuracy and authenticity. (Fall, Spring, occasional Summer)
- RELB 345. Old Testament Studies I (B-1) (W) 3 hours**  
An introduction to the Pentateuch and Writings, two major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. Various approaches to the study of the Old Testament will be surveyed. (Fall, Summers as needed)
- RELB 346. Old Testament Studies II (B-1) 3 hours**  
An introduction to the Prophets, a third major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. (Spring, Summers as needed)
- RELB 425. Studies in Daniel (B-1) (W) 3 hours**  
Recommended: HIST 174, 175.  
A study of selected historical and prophetic portions of Daniel to discover their meaning and relevance for today. (Fall, Summers as needed)
- RELB 426. Studies in Revelation (B-1) 3 hours**  
Recommended: HIST 174, 175.  
A study of the prophecies and symbolisms of Revelation with their historical fulfillments. Special attention will be given to discovering its special message for our day. (Spring, Summers as needed)
- RELB 435. New Testament Studies I (B-1) 3 hours**  
A brief introduction to and an exegetical study of the following epistles in the order of their composition: Galatians, I and II Thessalonians, I and II Corinthians, and James. Includes a background survey of the book of Acts. (Fall, Summers as needed)
- RELB 436. New Testament Studies II (B-1) (W) 3 hours**  
A brief introduction to and an exegetical study of Romans, the Prison, Pastoral, and General epistles, (excluding James) and Hebrews. (Spring, Summers as needed)
- RELB 295/495. Directed Study 1-3 hours**  
This course is limited primarily to Religion majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)



## RELIGION AND THEOLOGY

**RELT 138. Adventist Heritage (B-2) 3 hours**

A study of the Second Advent Awakening in the nineteenth century and the subsequent development of the Seventh-day Adventist Church. Special emphasis will be placed on the contributory role in the church of the Spiritual Gift of Prophecy through the life and ministry of Ellen G. White. (Fall, Spring, Summer)

**RELT 205. Introduction to Christian Missions (B-2) 3 hours**

Christian Missions aims at creating an awareness of global missions, its challenges and opportunities, problems and possibilities. The course includes an investigation of the biblical and theological foundations of mission, basic principles of church growth in the practice of mission, essential elements of cross-cultural communication, and relevant insights from applied anthropology.

**RELT 225. Last-Day Events (B-2) 3 hours**

Last-Day Events is a biblical, theological, and historical study of eschatology rooted in its Christ-centered focus. It considers the unique Seventh-day Adventist contribution over against that made by leading scholars both in the past and present. Also it examines the New Age Movement and Dispensationalism and focuses on how to be ready for the end event. (Fall, Spring, Summer)

**RELT 255. Christian Beliefs (B-2) 3 hours**

Christian Beliefs is a study of Adventist doctrines in a Christ-centered context. This course will involve a study of the major teachings, with a view to enhancing the student's understanding and ability to provide biblical support for his/her faith. (Fall, Spring, Summer)

**RELT 265. Spiritual Formation I (B-2) 1 hour**

A historical and theological study of Christian spirituality. This course provides a basic introduction to the classic spiritual disciplines, with an emphasis on prayer and fasting, including a practical application of the dynamics of these spiritual disciplines as a means of enriching the spiritual life. (Fall)

**RELT 266. Spiritual Formation II (B-2) 1 hour**

Prerequisite: RELT 265.

A continued study of the classic spiritual disciplines of the Christian faith with an emphasis on Scripture as a dynamic in personal spiritual formation. This course will focus on contemplative reading of Scripture, journaling, meditation on Scripture, and Scripture memorization. (Spring)

**\*RELT 317. Issues in Physical Science and Religion I (B-2) 3 hours**

See PHYS 317 for course description.

**\*RELT 318. Issues in Physical Science and Religion II (B-2) 3 hours**

See PHYS 318 for course description.

**RELT 268/368. Comparative Religions (B-2) (W) 3 hours**

A study of several major representative Christian and non-Christian religions, including a survey of the history and the distinctive characteristics of each. RELT 268 is offered on the Orlando campus only and does not carry writing emphasis. RELT 368 will require observational field work. (Spring)

**RELT 373. Christian Ethics (B-2) 3 hours**

A foundation course in moral decision-making in the fields of bio-ethics, moral ethics, and personal ethics. The objective is to discover timeless norms by which to make basic ethical decisions across the professional spectrum. These norms are then applied to issues relevant to the student. Limited to nursing students or students with Junior/Senior class standing. (Fall, Spring, Summers as needed)

**\*RELT 424. Issues in Natural Science and Religion (B-2) (W) 3 hours**

See BIOL 424 for course description.

**RELT 465. Topics in Religion (B-2) 1-3 hours**

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in evangelism, theological areas, and Biblical studies. The content will change, as needed, so the course may be repeated once for credit. Open to all students. (Fall, alternate years)

**RELT 467. Philosophy and the Christian Faith (B-2) (W) 3 hours**

A study of the main thinkers and schools of thought from the Middle Ages to the present and their influence on biblical theology. Also, attention will be given to various world views which are shaping Christian thought today. (Spring)

**RELT 484. Christian Theology I (B-2) 3 hours**

Recommended: RELT 255 or the equivalent.

Christian Theology I and II examine the major loci of Christian beliefs. Christian Theology I takes up Prolegomena, Doctrine of God, Christology, and Pneumatology; and in the process covers a portion of the 27 Seventh-day Adventist fundamental beliefs. Acceptable for denominational certification only when RELT 485 is also taken. (Fall)

**RELT 485. Christian Theology II (B-2) 3 hours**

Prerequisite: RELT 484.

Christian Theology II examines Anthropology, Soteriology, Ecclesiology, and Eschatology, covering the remaining 27 Seventh-day Adventist fundamental beliefs. Acceptable for denominational certification. (Spring)

**RELT 295/495. Directed Study 1-3 hours**

This course is limited primarily to Religion majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

\*One of the "Issues" courses can apply to General Education natural science requirement for majors, and to Religion for nonmajors.

## PROFESSIONAL TRAINING

### Church Leadership

#### RELP 321. Introduction to Preaching

2 hours

Prerequisites: SPCH 135 and RELB 265.

An introduction to sermon development and delivery. Attention will be given to the sermon structure and the preparation of biographical and topical sermons. Opportunity will be given to preach and analyze sermons. One lecture and two laboratories each week. To be taken in the junior year. (Spring)

#### RELP 322. Expository Preaching

2 hours

Prerequisite: RELP 321.

Expository, textual sermon types will be considered using the principles of biblical exegesis. One field trip will be required. Opportunity will be provided to develop proficiency in preaching. One class lecture and two laboratories each week. To be taken in the junior year. (Spring)

#### RELP 353. Interpersonal Ministry I

3 hours

The development of listening skills and interpersonal communication in pastoral visitation with special emphasis on revitalizing inactive members. Laboratory work in area churches will be required. (Fall)

#### RELP 354. Interpersonal Ministry II

3 hours

An introduction to pastoral care in such problem areas as catastrophic and terminal illness, grief, death, divorce, drug and alcohol addiction, homosexuality, incest and rape. Visitation to correctional and rehabilitation centers, hospitals, and nursing homes will be required. (Spring)

#### RELP 423. Biblical Preaching

2 hours

Prerequisite: RELP 322.

The development of preaching skills shared in Introduction to Preaching and Expository Preaching, with special emphasis on the preparation and delivery of the narrative/expository sermon following the great themes of Scripture. (Fall)

#### RELP 424. Evangelistic Preaching

2 hours

Prerequisite: RELP 322.

The development and the preaching of evangelistic sermons which will prepare one to conduct a public crusade. (Spring)

#### RELP 451. Church Ministry I

3 hours

An introduction to church ministry, this course focuses on the responsibilities of clergy and laity, including the call to discipleship and/or ministry, the study of denominational polity, the administrative structure of the church on all levels, and the relationship of the local church to the community. Laboratory work in area churches will be required. (Fall)

#### RELP 452. Church Ministry II

3 hours

Consideration is given the various professional tasks of the pastor, such as pastoral care, administration, leadership in worship, and conducting baptisms, weddings, anointing services, funerals, etc. Laboratory work in area churches will be required. (Spring)

**RELP 465. Personal Evangelism 3 hours**

Attention will be given to methods and principles of Evangelism. Explosion and the giving of Bible studies. Field work with local churches will be required. This course is available only in connection with RELP 466 and will be taught at a time arranged by the instructor. The consent of the Religion Department must be obtained prior to enrollment. A 50 percent tuition waiver applies to this class, calculated according to the policy on pages 24 and 25. (Summer)

**RELP 466. Public Evangelism 3 hours**

A study of the principles employed in preparing and conducting public evangelistic meetings. The student will learn how to plan, develop, and hold an evangelistic series as well as Revelation Seminars. This course is available only in connection with the Field School of Evangelism. The consent of the Religion Department must be obtained prior to enrollment. A 50 percent tuition waiver applies to this class, calculated according to the policy on pages 24 and 25. (Summer)

**RELP 468. Health Evangelism 3 hours**

A study of the concepts and methods of creating witnessing opportunities through taking advantage of the current interest in preventive health practices and lifestyle changes. The objective of these concepts and methods is to obtain decisions for a more abundant way of life and to lead men and women to Christ. The course also will provide future church leaders with practical ways to utilize the talents of members in health evangelism. Laboratory work in area churches and/or community settings is required. (Spring, or as needed)

**RELP 295/495. Directed Study 1-3 hours**

This course is limited primarily to Religion majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

**Lay Leadership and Missions****RELP 099. Student Missions Orientation 0 hours [Noncredit]**

A course designed to help students better understand cultural differences, interpersonal relationships, health care for others and themselves, social and monetary problems, personal qualifications for service, and relevant denominational policies for overseas service. The class is required by the General Conference of Seventh-day Adventists for those under appointment as student missionaries. The class is also a prerequisite for students participating in the North American Division Task Force Program. (Spring)

**RELP 204. Principles of Self-Supporting Work 2 hours**

The objectives of this course are to set forth principles from the Spirit of Prophecy; review the history and successes and failures of self-supporting institutions; study plans and methods of operation and set before the student the needs and call for active involvement as lay members.

**RELP 206. Christian Salesmanship 2 hours**

Teaches the psychology, techniques and methods of selling Christian literature.

## BIBLICAL LANGUAGES

**RELL 271-272. Elements of New Testament Greek (D-1) 4,4 hours**

A study of grammar of the vernacular (*koine*) Greek of New Testament times, with readings in the epistles of John. Laboratory work required. (Fall, Spring)

**RELL 311-312. Intermediate New Testament Greek (D-1) 3,3 hours**

A course in advanced studies, grammar, and syntax of (*koine*) Greek with translation of readings from the Gospel of John, the Synoptics, and the Pauline Epistles. (Fall, Spring)

**RELL 471-472. Biblical Hebrew (D-1) 3,3 hours**

A foundation course in the grammar, syntax, and lexicography of classical Biblical Hebrew, with an emphasis on reading skills. Laboratory work required. (Fall, Spring)

## EDUCATION

**EDUC 438. Curriculum and Content Methods/Bible 2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials construction, planning, testing and evaluating student performance, and the survey and evaluation of textbooks.

**(B-1), (B-2), (D-1), (W)** See pages 48-50 and 52-56 for explanation of General Degree and General Education requirements.

# INTERDEPARTMENTAL PROGRAMS

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## MEDICAL SCIENCE

Adviser: Stephen A. Nyirady

A Bachelor of Science Degree in Medical Science will be conferred upon students not already in possession of a bachelor's degree who satisfy the following three conditions:

1. Complete 93 semester hours in an accredited undergraduate college program of which at least the last 30 were taken in residence at Southern College and at least 12 of which were at the upper division level.
2. Meet the general education requirements equivalent to those outlined for the current Medical Technology program.
3. Provide certification from an accredited professional school of dentistry, medicine, or optometry that the first year of the respective professional program has been successfully completed and that the applicant is eligible to continue.

Request for the conferral of this degree is made to the Director of Records.

## GENERAL STUDIES

Adviser: Wilma McClarty

The Associate of Arts and Associate of Science degrees with a major in General Studies are designed for students who have not made a career decision at the time they enter college. These degrees offer them an opportunity to earn a large part of the general requirements for a baccalaureate degree while leaving some semester hours free for exploration in areas of their choice.

## ASSOCIATE OF ARTS DEGREE IN GENERAL STUDIES

**Major:** The completion of the general education requirements for the Bachelor of Arts degree with the exception that 6 hours instead of 12 will be required for Area B, Religion. A course in speech must be included. A minimum total of 64 semester hours with a Southern College and cumulative minimum grade point average of 2.00 is required. Students who plan eventually to complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

\*Six hours of elementary foreign language must be included unless two units of the same language were earned in high school.

Typical Sequence of Courses for  
A.A. GENERAL STUDIES

YEAR 1	Semester	YEAR 2		Semester	
		1st	2nd		1st
ENGL 101-102	College Comp	3	3	Area B, Religion	3
	Area B, Religion	3		Area E, Nat Sci	3
	Area E-1, Nat Sci	3		Area D, Lang/Lit	
	G-3, Rec Skills		1	Fine Arts	3
	Elective (area of interest)	3	3	Area D, Speech	
	Area C, History	3	3	Area A, Math	3
	Area G, Act Skls	1	3	Area C, Govt/Econ	3
	Area F, Beh Sci		3	Area F, Beh Sci	2
		16	16	Area G, Skills	1
				Foreign Language	3
				Electives	4
					4-1
					16
					16

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements for make-up of any admissions deficiencies.

ASSOCIATE OF SCIENCE DEGREE IN GENERAL STUDIES

**Major:** The completion of the general education requirements for the Bachelor of Science degree with the exception that 6 hours instead of 12 will be required for Area B, Religion. A course in speech must be included. A minimum total of 64 semester hours with a Southern College and cumulative minimum grade point average of 2.00 is required. Students who plan eventually to complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

Typical Sequence of Courses for  
A.S. GENERAL STUDIES

YEAR 1	Semester	YEAR 2		Semester	
		1st	2nd		1st
ENGL 101-102	College Comp	3	3	Area B, Religion	3
	Area B, Religion	3		Area E, Nat Sci	3
	Area E-1, Nat Sci	3		Area D, Lang/Lit	
	G-3, Rec Skills		1	Fine Arts	3
	Elective (area of interest)	3	3	Area D, Speech	3
	Area C, History	3	3	Area A, Math	0-3
	Area G, Act Skls	1	3	Area C, Govt/Econ	3
	Area F, Beh Sci		3	Area F, Beh Sci	2
		16	16	Area G, Skills	1
				Electives	7
					4-1
					16
					16

See pages 48-50 and 52-56 for general degree and general education requirements. Note especially requirements for make-up of any admissions deficiencies.

# NON-DEGREE PRE-PROFESSIONAL PROGRAMS

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Pre-professional and pre-technical curricula are offered in a wide variety of fields. Below are listed the curricula most frequently chosen. If other pre-professional programs are desired, faculty advisors are prepared to assist the student in working out a satisfactory sequence of courses needed to meet the admission requirements of the chosen professional school.

## **ANESTHESIA**

Adviser: Bonnie Hunt

Registered nurses who are comfortable working in critical care areas may become registered nurse anesthetists. Graduation from an approved program of nursing and a valid nursing license is required. Additional requirements may be determined by consulting the Department of Nursing.

## **DENTISTRY**

Adviser: Stephen A. Nyirady

Pre-dental training in college requires a minimum of three years of study; however, a preference is given to those who have completed a fourth year, earning a bachelor's degree. Students may major in the field of their interest. Although a thorough background in the biological and physical sciences is essential to the study of dentistry, a broad educational background in the humanities is desirable. Upper division biology courses are recommended to prepare for the Dental Admissions Test and for the first year of basic science courses in dental school.

Application to dental school should be made one year previous to the one for which admission is desired. Successful applicants should have a minimum G.P.A. of 3.00 in both science and non-science courses as well as satisfactory performance on the Dental Admissions Test (given each October and April). Information regarding the Dental Admission Testing Program may be obtained from the American Dental Association, 211 East Chicago Avenue, Chicago, IL 69611.



The following courses must be included to meet the minimum requirements for admissions to the LLU School of Dentistry:

BIOL 151-152 .....	8 hours
CHEM 151-152, 311-312, 313-314 .....	16 hours
ENGL 101-102 .....	6 hours
PHYS 211-212, 213-214 .....	8 hours

The following courses are strongly recommended: Ceramics, Principles of Management, Basic Accounting, Precalculus, Nutrition, Histology, Biochemistry, and psychology courses.

## **LAW**

Adviser: Ben McArthur

Students interested in the study of law as a profession should become acquainted with the entrance requirements of various law schools. This will make possible the planning of a pre-professional program which will qualify the student for admission to several schools.

It is a general requirement that students complete a bachelor's degree before entering law school. Although no particular major is required, four fields should be especially considered by the student serious about law school. These are: business, history, English, and behavioral science. Certain courses recommended by all law schools include American history, freshman composition, principles of accounting, American government, principles of economics, English history, business law, and mathematics. Pre-law students should concentrate on developing their analytical, verbal, and writing skills.

Southern College offers a Political Economy minor, which combines an interdisciplinary selection of courses helpful for law school preparation. This eighteen-hour minor consists of:

1. ECON 224 Principles of Economics ..... 3 hours
2. PLSC 254 American Government ..... 3 hours
3. PLSC 471 Classics of Western Thought I or  
    PLSC 472 Classics of Western Thought II ..... 3 hours
4. ENGL 313 Expository Writing ..... 3 hours

Plus six hours selected from the following courses:

5. ACCT 221 Principles of Accounting
6. ECON 225 Principles of Economics
7. BUAD 358 Legal, Ethical, and Social Environment of Business
8. BUAD 339 Business Law
9. HIST/PLSC 357 Modern America
10. HIST 374 History of England
11. JOUR 427 Mass Media Law and Ethics

Information about preparation for law school may be obtained from the Section of Legal Education and Admissions to the Bar, American Bar Association, 1155 East 60th Street, Chicago, Illinois 60637. For information about the Law School Admissions Test, see the pre-law adviser.

## **MEDICINE**

Advisers: Stephen A. Nyirady, William Hayes, Joyce Azevedo

Secondary school students who look forward to a career in medicine are advised to include mathematics and science courses during their high school years.

Most applicants complete a Bachelor's Degree prior to entrance into medical school. Exceptional students may be eligible to apply after completion of a minimum of 85 semester hours. Applicants for admission to the Loma Linda University School of Medicine should maintain a grade point average of at least 3.50 in both science and non-science courses. The following courses without an asterisk must be included in the applicant's academic program. Medical schools generally do not accept CLEP credits for these basic science courses. Classes with asterisks in biology, chemistry, and mathematics are recommended.

BIOL 151-152, 313*, 316*, 330*, 340*, 415*, 417*, 418* . . . . .	8 hours
CHEM 151-152, 311-312, 313-314, 323* . . . . .	16 hours
ENGL 101-102 . . . . .	6 hours
MATH 120, 181* . . . . .	3 hours
PHYS 211-212, 213-214 . . . . .	8 hours
Religion . . . . .	12 hours

It is recommended that students plan a curriculum that includes study of the humanities and social sciences to provide a solid preparation for the future role of the physician.

Applicants are also encouraged to obtain experience where they are directly involved in the providing of health care. The Biology Department collaborates with Chattanooga's Erlanger Medical Center in a premedical preceptorship program. This program provides the opportunity for upper division pre-medical students to shadow resident physicians in the hospital for up to 24-hour periods.

The applicant is required to have taken the new Medical College Admission Test (MCAT) prior to consideration by the admissions committee. This exam is administered twice a year—in September and April. Application for the exam is made through the Counseling and Testing Center one month before the exam is scheduled. For entrance into medical school following graduation, the student should plan on taking the MCAT in April of the junior year. All of the above required science courses should be completed by this time to insure maximum

performance on the MCAT exam. The exam may be retaken in September of the senior year.

Once or twice each year representatives from LLU and other schools of medicine visit the campus to interview prospective students. Premedical students are encouraged to make appointments to speak with them.

Most medical schools are members of the American Medical College Application Service (AMCAS). Applications must be submitted through this service. The AMCAS application may be obtained from the Testing and Counseling Office or directly from AMCAS. Application should be directly to AMCAS between July 1 and November 1 for entry in the summer of the following year.

American Medical College Application Service  
1176 Massachusetts Avenue, N.W.  
Washington, DC 20036-1989

After receiving the applications from AMCAS, the admissions office of the medical school reviews the candidates and determines whether or not supplementary information is needed.

Medical schools usually require a letter of recommendation from the pre-professional recommendation committee of the applicant's undergraduate college. Senior pre-medical students are asked to provide the names and addresses of all medical schools to which they are applying to the Vice President for Academic Administration's office before October 1.

Following a careful evaluation of the supplementary application and letters of recommendation submitted to the admissions office, selected applicants may be invited for a personal interview by the medical school.

### OPTOMETRY

Adviser: Orville Bignall

The admission requirements to colleges of optometry vary, so the student should follow the catalog from the school of his or her choice. However, all place emphasis on biology, chemistry, mathematics and physics. Additional courses in the areas of fine arts, language, literature, and the social sciences are usually necessary.

A minimum of two years of preoptometric study is required. However, additional study increases the prospects of acceptance into professional training.

Following is a list of preoptometry courses required by most schools:

BIOL 330 and 151-152 .....	12 hours
CHEM 151-152 .....	8 hours
ENGL 101-102 .....	6 hours
MATH 120, 121, 181, 182 .....	12 hours
PHYS 211-212, 213-214 .....	8 hours
PSYC 124 .....	3 hours

Direct individual inquiries are welcomed by the American Optometric Association, Division of Education and Manpower, 243 North Lindbergh Blvd., St. Louis, MO 63141.

### **OSTEOPATHIC MEDICINE**

Adviser: Stephen A. Nyirady

An alternative to allopathic medical schools, which grant the M.D. degree, are the osteopathic medical schools whose graduates receive the D.O. degree.

Many Seventh-day Adventists have attended the University of Health Sciences, College of Osteopathic Medicine in Kansas City, Missouri, one of fifteen osteopathic medical colleges in this country.

Requirements for admission are similar to those for allopathic medical schools such as Loma Linda University School of Medicine.

For a reasonable chance of acceptance, a minimum grade point average of 3.00 should be maintained in both science and non-science subjects.

### **PHARMACY**

Adviser: Mitchell Thiel

The bachelor's degree program in pharmacy normally requires five years, the first two years of which may be taken at Southern College.

Admission requirements to colleges of pharmacy are somewhat variable so the student should consult the catalog of the school of his/her choice for specific course recommendations.

Minimum admission requirements to the University of Tennessee College of Pharmacy at Memphis are:

ACCT 221 .....	3 hours
BIOL 151-152 .....	8 hours
CHEM 151-152, 311-312, 313-314 .....	16 hours
ENGL 101-102 .....	6 hours
MATH 181 .....	3 hours
PHYS 211-212, 213-214 .....	8 hours

**Additional requirements include:**

Literature or Foreign Language .....	4 hours
Social Sciences:	
Psychology .....	2 hours
Other (to include Economics, Political Science, Sociology, History, etc.) .....	8 hours
Speech .....	3 hours
Electives .....	8 hours

A minimum grade of C must be obtained for each required pre-pharmacy class. A higher grade point average will increase the chance of acceptance into pharmacy school. In addition, a satisfactory score must be achieved on the National Pharmacy College Admission Test.

**VETERINARY MEDICINE**

**Adviser: Stephen Nyirady**

Competition for admission to colleges of veterinary medicine is keen. Consequently, most successful applicants have completed a degree rather than the minimum requirements listed below. It should also be noted that it is difficult to be accepted in any veterinary institution other than the school in the state where the applicant resides.

The applicant must make a satisfactory score on the Veterinary College Admission Test (VCAT) in addition to meeting grade point average and personal qualifications for admission. Professional training involves four years of veterinary school beyond college.

Minimum admission requirements to the University of Tennessee College of Veterinary Medicine in Knoxville are:

BIOL 151-152, 316, 412 .....	15 hours
CHEM 151-152, 311-312, 313-314, 323 .....	20 hours
ENGL 101-102 .....	6 hours
MATH 181-182 .....	7 hours
PHYS 211-212, 213-214 .....	8 hours

**Additional requirements include:**

Humanities and Social Sciences .....	18 hours
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Admission requirements will vary between veterinary schools. Therefore, it is recommended that the pre-veterinary student work closely with his/her adviser in assuring that the specific requirements for the schools of his/her choice are met.

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- Peggy Bennett, M.S.L.S. (1971) ..... Director of Libraries  
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 Roy Dingle, B.S. (1974) . . . . . Bakery Manager, Village Market  
 Harold Haas, B.S. (1991) . . . . . Associate Manager, Village Market  
 Allen Olsen (1984) . . . . . General Manager, The College Press  
 Larry Payne (1993) . . . . . Production Manager, The College Press  
 Jim Burrus (1993) . . . . . Manager, Village Market  
 Rita Wohlers (1987) . . . . . Manager, Campus Shop

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**Campus Safety**

- Dale Tyrrell (1990) . . . . . Director, Campus Safety  
Donald Hart, A.S. (1993) . . . . . Associate Director, Campus Safety

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Beverly Ericson, B.S. (1988) . . . . . Assistant Dean of Women  
Stan Hobbs, M.Ed. (1985) . . . . . Dean of Men  
Kassandra Krause, A.S. (1987) . . . . . Assistant Dean of Women  
Assistant Dean of Men  
Dennis Negron, B.A. (1993) . . . . . Assistant Dean of Men

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Randy Harr, B.S. (1991) . . . . . Youth Pastor  
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Ed Wright, M.Div. (1985) . . . . . Family Ministries Pastor

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Thelma Cushman, M.A., *Associate Professor Emerita of Home Economics*  
Kenneth R. Davis, M.A., *Director Emeritus of Counseling and Testing*  
Mary Elam, M.A., *Associate Vice President Emerita of Academic Administration*  
Charles Fleming, Jr., M.B.A., *Business Manager Emeritus*



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- K. M. Kennedy, Ed.D., *Professor Emeritus of Education*
- H. H. Kuhlman, Ph.D., *Professor Emeritus of Biology*
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- Mitchell Thiel, Ph.D., *Professor Emeritus of Chemistry*
- Drew Turlington, M.S., *Associate Professor Emeritus for Industrial Education*
- Laurel Wells, *Director Emerita of Student Finance*

## INSTRUCTIONAL FACULTY

(Dates in parentheses indicate the beginning year of employment at Southern College.)

- Pamela Ahlfeld, M.S., *Associate Professor of Nursing*  
 B.S., Southern Missionary College; M.S., Georgia State University.  
 (1990)
- J. Bruce Ashton, D.M.A., *Professor of Music*  
 B.Mus., Capital University; M. Mus., American Conservatory of  
 Music; D.M.A., University of Cincinnati. (1968)
- Wiley Austin, M.S., *Associate Professor of Chemistry*  
 B.S. Pacific Union College; M.S., Stanford University. (1988)
- Joyce L. Azevedo, Ph.D., *Assistant Professor of Biology*  
 B.S., Union College; M.A. and Ph.D., University of California,  
 Riverside. (1992)
- Fern Babcock, M.A., *Assistant Professor of Education*  
 B.L.A., Pakistan Adventist Seminary and College; M.A.T., Andrews  
 University. (1991)
- George Babcock, Ed.D., *Professor of Education*  
 B.A., Columbia Union College; M.A. and Ed.D., Andrews University.  
 (1991)

- Peggy Bennett, M.S.L.S.,** *Director of Libraries, Associate Professor of Library Science*  
B.S. Southern Missionary College; M.S.L.S., Florida State University. (1971)
- Orville Bignall, B.S.,** *Assistant Professor of Physics*  
B.S., Southern College of Seventh-day Adventists. (1992)
- Jack Blanco, Th.D.,** *Professor of Religion*  
B.A., Union College; M.A. and B.D., SDA Theological Seminary; M.Th., Princeton Theological Seminary; Th.D., University of South Africa. (1983)
- Ann Clark, Ph.D.,** *Associate Professor of English/Coordinator of Special Academic Services*  
B.A., Southern Missionary College; M.A.T., University of Tennessee at Chattanooga; Ph.D., University of Tennessee, Knoxville. (1965)
- Herbert Coolidge, Ph.D.,** *Professor of Business Administration*  
B.S., Southern Missionary College; M.B.A. and Ph.D., Michigan State University. (1991)
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B.A., Southern Missionary College; M.A., Andrews University. (1989)
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B.S., Southern Missionary College; M.B.Ed., Middle Tennessee State University. (1971)
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B.A., Union College; M.A., University of Nebraska; Ph.D., Michigan State University. (1968)
- Ron du Preez, M.A.,** *Assistant Professor of Religion*  
B.A., Helderberg College; M.A., Andrews University. (1992)
- John Durichek, M.A.,** *Associate Professor of Computer Science and Technology*  
B.S., Southern Missionary College; M.S., George Peabody College for Teachers. (1969)
- Robert D. Egbert, Ed.D.,** *Professor of Psychology*  
B.A., Walla Walla College; M.S.Ed., Ed.S., and M.Ed, University of Idaho, Moscow; Ed.D., Temple University.
- David Ekkens, Ph.D.,** *Professor of Biology*  
B.A. and M.A., Andrews University; Ph.D., Loma Linda University. (1990)
- Richard Erickson, M.B.A.,** *Associate Professor of Business Administration*  
B.S. and M.B.A., Austin Peay State University. (1984)
- Ted Evans, M.Ed.,** *Associate Professor of Physical Education*  
B.S., Andrews University; M.Ed., University of Tennessee at Chattanooga. (1974)

- Flora Flood, M.S.N., *Associate Professor of Nursing*  
B.S., Columbia Union College; M.S.N., Medical College of Georgia.  
(1983)
- Robert Garren, M.F.A., *Professor of Art*  
B.S., Atlantic Union College; M.F.A., Rochester Institute of  
Technology. (1968)
- Philip G. Garver, Ed.D., *Professor of Physical Education*  
B.S., Southern Missionary College; M.S., Eastern Michigan  
University; Ed.D., University of Tennessee, Knoxville. (1976)
- Orlo Gilbert, M.Mus. Ed., *Professor of Music*  
B.M.E., La Sierra College; M.Mus.Ed., Madison State Teachers  
College. (1967)
- Judith Glass, M.Mus., *Professor of Music*  
B.Mus. and M.Mus., University of Texas at Austin. (1975)
- Loranne Grace, M.L.S., *Associate Professor of Library Science*  
B.S., Walla Walla College; M.L.S., University of Washington. (1970)
- Jon Green, Ph.D., *Professor of Education*  
B.A., La Sierra College; M.S., Loma Linda University; M.A.,  
Andrews University; Ph.D., Georgia State University. (1989)
- Floyd Greenleaf, Ph.D., *Professor of History/Senior Vice President  
for Academic Administration*  
B.A., Southern Missionary College; M.A., George Peabody College  
for Teachers; Ph.D., University of Tennessee, Knoxville. (1966)
- Leona Gulley, Ed.D., RNCS, NCC, *Professor of Nursing*  
B.S., Columbia Union College; M.A., Far East Theological Seminary;  
M.H.S., Philippine Union College; M.S., Andrews University; Ed.D.,  
Vanderbilt University. (1978)
- Norman Gulley, Ph.D., *Professor of Religion*  
Diploma in Theology, Newbold College; B.A., Southern Missionary  
College; M.A. and M.Div., Andrews University; Ph.D., University of  
Edinburgh. (1978)
- David W. Haley, M.B.A., *Associate Professor of Business Administration*  
B.S., Southern College of Seventh-day Adventists; M.B.A.,  
Tennessee Technological University. (1989)
- Richard Halterman, M.S., *Associate Professor of Computer Science*  
B.S., Florida Southern College; M.S., Florida Atlantic University.  
(1987)
- Jan Haluska, Ph.D., *Professor of English*  
B.S., Pacific Union College; M.A., Andrews University; Ph.D.,  
University of Tennessee, Knoxville. (1981)

## ●Orlando Faculty

- Lawrence E. Hanson, Ph.D., *Professor of Mathematics***  
B.A., California State University; M.A., University of California;  
Ph.D., Florida State University. (1966)
- Pamela Harris, M.L.S., *Assistant Professor of Journalism***  
B.A., Southern Missionary College; M.L.S., George Peabody College  
of Vanderbilt University. (1989)
- William Hayes, Ph.D., *Associate Professor of Biology***  
B.S. and M.S., Walla Walla College; Ph.D., University of Wyoming.  
(1990)
- Carole Haynes, Ed.D., *Associate Professor of Education***  
B.S., Southern Missionary College; M.Ed., University of Tennessee  
at Chattanooga; Ed.D., University of Tennessee, Knoxville. (1982)
- Ray Hefferlin, Ph.D., *Professor for International Research in Physics***  
B.A., Pacific Union College; Ph.D., California Institute of  
Technology. (1955)
- \*Volker Henning, M.A., *Associate Professor of Journalism***  
B.A., Southern Missionary College; M.Div., Andrews University;  
M.A., University of Central Florida. (1989)
- Duane F. Houck, Ph.D., *Professor of Biology***  
B.A., Emmanuel Missionary College; M.A., University of North  
Carolina; Ph.D., Iowa State University. (1973)
- Shirley Howard, M.S.N., *Associate Professor of Nursing***  
B.S., Walla Walla College; M.S.N., University of Tennessee,  
Knoxville. (1974)
- Bonnie Hunt, M.S.N., *Associate Professor of Nursing***  
B.S., Loma Linda University; M.S.N., University of Tennessee,  
Knoxville. (1974)
- Katy Hunt, M.S.L.S., *Associate Professor of Library Science***  
B.S., Southern Missionary College; M.S.L.S., University of  
Tennessee, Knoxville. (1976)
- Bradley G. Hyde, M.S.C.S., *Associate Professor of Computer Science***  
B.A., Southern Missionary College; M.S.C.S., Maryland University.  
(1988)
- Gordon Hyde, Ph.D., *Professor of Religion***  
B.A., Andrews University; M.A., University of Wisconsin; Ph.D.,  
Michigan State University. (1982)
- Steven Jaecks, M.Ed., *Associate Professor of Physical Education***  
B.A., Loma Linda University; M.Ed., University of Tennessee at  
Chattanooga. (1980)

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Study Leave

- Barbara James, M.S.N., *Assistant Professor of Nursing*  
B.S., Southern Missionary College; M.S.N., University of Texas at  
Arlington. (1991)
- John Keyes, Ed.S., *Associate Professor of English*  
B.A., Asbury College; M.A., Central Michigan University; M.A.T.,  
Andrews University; M.L.S., Vanderbilt University; Ed.S., George  
Peabody College for Teachers. (1987)
- Henry Kuhlman, Ph.D., *Professor of Physics*  
B.A., Emmanuel Missionary College; M.A., Western Michigan  
University; Ph.D., Purdue University. (1968)
- Edward L. Lamb, M.S.S.W., A.C.S.W., *Professor of Social Work and  
Family Studies*  
B.S., Union College; M.S.S.W., University of Tennessee, Knoxville.  
(1971)
- Katie A. Lamb, M.S.N., *Associate Professor of Nursing*  
B.S., Union College; M.S.N., University of Central Arkansas. (1972)
- Donn Leatherman, M.Div., *Assistant Professor of Religion*  
B.Th., Canadian Union College; M.Div., Andrews University. (1992)
- Merritt MacLafferty, M.A., *Associate Professor of Computer Science*  
B.A., Union College; M.A., Pacific Union College. (1980)
- Ben McArthur, Ph.D., *Professor of History*  
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(1979)
- Wilma McClarty, Ed.D., *Professor of English*  
B.A. and M.A., Andrews University; Ed.D., University of Montana.  
(1972)
- Robert Moore, Ed.D., *Professor of Mathematics*  
B.A., Southern Missionary College; M.S., University of North  
Carolina; Ed.D., The University of Georgia. (1979)
- Derek Morris, D. Min., *Professor of Religion*  
B.A., Columbia Union College; M.Div. and D.Min., Andrews  
University; (1987)
- Patricia C. Morrison, M.L.S., *Associate Professor of Library  
Science/Assistant Librarian*  
B.S., East Carolina University; M.L.S., Vanderbilt University.  
(1981)
- Laura Nyirady, M.S.N., *Associate Professor of Nursing*  
B.S., Loma Linda University; M.S.N., Boston University. (1986)
- Stephen A. Nyirady, Ph.D., *Professor of Biology*  
B.A., Atlantic Union College; M.S. and Ph.D., Loma Linda  
University. (1986)

- Cliff Olson, M.A., *Associate Professor of Business*  
B.A., University of Northern Colorado; M.A., Colorado State University. (1989)
- Helmut K. Ott, Ed.D., *Professor of Modern Languages*  
B.A., Loma Linda College of Arts and Sciences; M.A., Inter-American University; M.A. and Ed.D., Andrews University. (1971)
- Mark Peach, M.A., *Associate Professor of History*  
B.A., Walla Walla College; M.A., Washington State University. (1987)
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B.A., La Sierra College; M.A., Loma Linda University; Ph.D., University of California, Riverside. (1988)
- Mildred Muniz Preussner, M.S.N., *Assistant Professor of Nursing*  
B.S., Antillian College; M.S.N., Catholic University of Puerto Rico. (1990)
- Helen Pyke, M.A., *Associate Professor of English*  
B.A., Walla Walla College; M.A., University of Tennessee at Chattanooga. (1990)
- Kenneth Reynolds, *Instructor of Industrial Technology* (1992)
- Arthur Richert, Ph.D., *Professor of Mathematics*  
B.A., Southern Missionary College; M.A. and Ph.D., University of Texas. (1970)
- MaryAnn Roberts, M.S., *Assistant Professor of Nursing*  
B.S. and M.S., Andrews University. (1992)
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B.Mus., Walla Walla College; M.A., University of Northern Colorado; Ph.D., Florida State University. (1966)
- Cyril Roe, Ed.D., *Professor of Education*  
B.A., Pacific Union College; M.A., Pacific Union College; Ed.D., University of the Pacific. (1976)
- Daniel Rozell, M.A., *Associate Professor of Business Administration*  
B.S., Southern Missionary College; M.A., Central Michigan University. (1978)
- Terrie Ruff, M.S.W., *Assistant Professor of Social Work and Family Studies*  
B.S.W., Columbia College; M.S.W., University of South Carolina. (1990)
- Vinita Sauder, M.B.A., *Assistant Professor of Business Administration*  
B.A., Southern Missionary College; M.B.A., University of Tennessee at Chattanooga. (1983)

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•Orlando Faculty

- Helen Sauls, M.A., *Associate Professor of Education*  
B.S., Southern Missionary College; M.A., University of Iowa. (1989)
- Lynn Sauls, Ph.D., *Professor of Journalism and English*  
B.S., Southern Missionary College; M.A., Peabody College of  
Vanderbilt University; Ph.D., University of Iowa. (1989)
- Kathy Schleier, B.S.N., *Instructor of Nursing*  
B.S.N., Southern Missionary College. (1991)
- Sterling Sigsworth, Ph.D., *Assistant Professor of Chemistry*  
B.S., Ohio University; Ph.D., Pennsylvania State University. (1991)
- Patricia Silver, M.A., *Associate Professor of Music*  
B.S.C., Madison College; M.A., George Peabody. (1982)
- David Smith, Ph.D., *Professor of English*  
B.A. and M.A., Andrews University; Ph.D., University of Tennessee,  
Knoxville. (1981)
- Peggy Smith, M.A., *Assistant Professor of Office Administration*  
B.S., Southern Missionary College; M.A., Andrews University.  
(1988)
- Shirley Spears, M.S., *Associate Professor of Nursing*  
B.S., Southern Missionary College; M.S., University of Alabama at  
Birmingham. (1990)
- Jean Springett, M.S., *Associate Professor of Nursing*  
B.S., Columbia Union College; M.S., University of Maryland. (1991)
- Ronald Springett, Ph.D., *Professor of Religion*  
B.A., Columbia Union College; M.A., and B.D., Andrews University;  
Ph.D., University of Manchester. (1969)
- Jeanette Stepanke, Ed.D., *Professor of Education*  
B.S., Andrews University; M.A., Ohio State University; Ed.D.,  
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- Carl Swafford, M.S., *Assistant Professor of Education*  
B.A., Southern Missionary College; M.S., University of Tennessee at  
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- Wayne E. VandeVere, Ph.D., C.P.A., *Ruth McKee Professor of  
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B.A., Andrews University; M.B.A., University of Michigan; Ph.D.,  
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- Dale Walters, M.S., *Associate Professor of Industrial Technology*  
B.S., Southern Missionary College; M.S., East Tennessee University.  
(1988)
- Steven E. Warren, Ph.D., *Professor of Chemistry*  
B.S., Andrews University; Ph.D., Arizona State University. (1982)

## FACULTY DIRECTORY

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- **Erma Webb, M.S., Associate Professor of Nursing**  
B.S., Union College; M.S., Loma Linda University. (1976)
- Larry Williams, M.S.W., Associate Professor of Social Work and Family Studies**  
B.S., Southern Missionary College; M.S.W., University of Georgia. (1983)
- Ruth Williams-Morris, Ph.D., Associate Professor of Psychology**  
B.A., Oakwood College; M.A., Andrews University; Ph.D., University of Minnesota. (1991)
- Judy Winters, M.N., Associate Professor of Nursing**  
B.S., Southern Missionary College; M.N., Emory University. (1990)
- William Wohlers, Ph.D., Professor of History/Vice President for Student Services**  
B.A., Walla Walla College; M.A., Andrews University; Ph.D., University of Nebraska. (1973)

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### ● Orlando Faculty

- Jean Springle, M.S., Associate Professor of History**  
B.S., Columbia Union College; M.A., University of Maryland. (1991)
- Ronald Springle, Ph.D., Professor of Religion**  
B.A., Columbia Union College; M.A., Andrews University; Ph.D., University of Tennessee. (1989)
- Jennette Stepanak, Ed.D., Professor of Education**  
B.S., Eastern Kentucky University; M.Ed., Ohio State University; Ph.D., University of Tennessee. (1991)
- Carl Swafford, M.S., Assistant Professor of Education**  
D.Ed., Southern Missionary College; M.S., University of Tennessee at Knoxville. (1992)
- Wayne E. Vandevan, Ph.D., C.P.A., Business Professor**  
B.S., University of Tennessee; M.B.A., University of Mississippi; Ph.D., Mississippi State University. (1956)
- Dale Walters, M.S., Associate Professor of Industrial Technology**  
M.S., Southern Missionary College; M.S., East Tennessee University. (1988)
- Boyer E. Warren, Ph.D., Professor of Chemistry**  
B.S., Andrews University; Ph.D., University of Tennessee. (1982)

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### Orlando Faculty



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**Screening Subcommittee:** Pat Silver, Chair; Pam Ahlfeld, David Ekkens, Two deans (one from each dormitory), Steve Warren, (William Wohlers, ex-officio)

**Social/Recreation Committee:** Peggy Smith, Chair; Ron du Preez, Earl Evans, Mari-Carmen Gallego, Pam Harris, Cherie Smith, Jeanne Davis, (Donald Sahly, ex-officio)

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**Student Personnel Committee:** William Wohlers, Chair; Sharon Engel, Beverly Ericson, Earl Evans, Eleanor Hanson, Stan Hobbs, Kassy Krause, Ken Rogers, Dale Tyrrell, Director of Testing and Counseling

**Student Services Committee:** William Wohlers, Chair; Don Dick, Sharon Engel, Judy Glass, Stan Hobbs, Ken Norton, Ken Rogers, Dan Rozell, Pat Silver

**Wellness Committee:** Phil Garver, Chair; Dale Collins, Helen Durichek, Sheri Hall, Laura Nyirady, Mark Peach, Merlin Wittenberg, one student intern appointed by the HPER Department, (Dale Bidwell, ex-officio)

**Writing Committee:** Helen Pyke, Chair; Bruce Ashton, Norm Gulley, Bill Hayes, Ray Hefferlin, Dennis Pettibone, Lynn Sauls, (Floyd Greenleaf, ex-officio)

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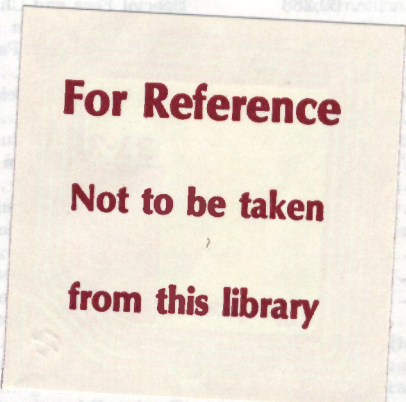
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